



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

MAY 07 2007

CERTIFIED MAIL 7003 1010 0002 1622 1459 **-RETURN RECEIPT REQUEST**

File No.: LA0000761

AI No.: 1255 Activity No.: PER19910001

Mr. Jim Rock, Director of Environmental, Health, and Safety
PPG Industries, Inc. Industrial Chemicals
Lake Charles Facility
Post Office Box 1000
Lake Charles, Louisiana 70602

RE: Draft Louisiana Pollutant Discharge Elimination System (LPDES) permit to discharge process wastewater and process area stormwater runoff, non-process area stormwater runoff, treated sanitary wastewater, miscellaneous utility and other non-process area wastewaters to local drainage, thence to Bayou D'Inde (Proposed Outfalls A01, B01, 10A, 10B, 20A, and 30A), the Calcasieu Ship Canal (Outfall 002), Bayou Verdine via the Olin ditch (Outfall 004), and local drainage, thence to the Main Channel of the Calcasieu River (Proposed relocation of Outfall 001) from an existing organic and inorganic chemical production and silica production facility located at 1300 PPG Drive in Lake Charles, Calcasieu Parish.

Dear Mr. Rock:

The Department of Environmental Quality proposes to reissue an LPDES permit with the effluent limitations, monitoring requirements, and special conditions listed in the attached DRAFT PERMIT. Please note that this is a DRAFT PERMIT only and as such does not grant any authorization to discharge. Authorization to discharge in accordance with this permitting action will only be granted after all requirements described herein are satisfied and by the subsequent issuance of a FINAL PERMIT. Upon the effective date of the FINAL PERMIT, the FINAL PERMIT shall replace the previously effective EPA (NPDES) permit.

Upon issuance of a final permit, monitoring results should be reported on a Discharge Monitoring Report (DMR) form per the schedule specified.

This Office will publish a public notice one time in the local newspaper of general circulation, and in the Department of Environmental Quality Public Notice Mailing List. A copy of the public notice containing the specific requirements for commenting to this draft permit action will be sent under separate cover at the time the public notice is arranged. In accordance with LAC 33:IX.6521.A, the applicant shall receive and is responsible for paying the invoice(s) from the above mentioned newspaper(s). LAC 33:IX.6521.A states: "...the costs of publication shall be borne by the applicant."

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

PPG Industries, Inc. Industrial Chemicals
RE: LA0000761, AI No. 1255
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The invoice, fee rating sheets, and a copy of the fee regulations will be sent under a separate cover letter as applicable. A copy of the entire Louisiana Water Quality Regulations may be obtained from the DEQ Office of Environmental Assessment, Post Office Box 4314, Baton Rouge, Louisiana 70821-4314, (225) 219-3236.

Pursuant to LAC 33.IX.1309.I, LAC 33.IX.6509.A.1 and LAC 33.I.1701, you must pay any outstanding fees to the Department. Therefore, you are encouraged to verify your facility's fee status by contacting LDEQ's Office of Management and Finance, Financial Services Division at (225) 219-3863. Failure to pay in the manner and time prescribed could result in applicable enforcement actions as prescribed in the Environmental Quality Act, including, but not limited to revocation or suspension of the applicable permit, and/or assessment of a civil penalty against you.

For sanitary treatment plants, the plans and specifications must be approved by the Department of Health and Hospitals, Office of Public Health, 6867 Bluebonnet Road, Box 7, Baton Rouge, Louisiana 70810, (225) 765-5038.

Should you have any questions concerning any part of the DRAFT PERMIT, public notice requirements, or fee, please feel free to contact Jenniffer Sheppard, Office of Environmental Services, at the address on the preceding page, telephone (225) 219-3138. All future correspondence regarding this permit shall use the Agency Interest (AI) number 1255 and LPDES permit number LA0000761.

Sincerely,



Jesse Chang
Environmental Scientist Manager
Industrial Water Permits

jls

Attachment(s) including draft permit, factsheet, and fee sheet

cc: Scott Guilliams
Water Permits Division

cc: Aimee Killeen
Water Permits Division

Ms. Gayle Denino
Office of Management & Finance

Permit Compliance Unit
Office of Environmental Compliance

cc: IO-W File

Jenniffer Sheppard
Water Permits Division

Melissa Reboul
Water Permits Division

For Public Notice
Public Participation Group
Office of Environmental Assistance

DRAFT



PERMIT NUMBER
LA0000761
AI No.: 1255

OFFICE OF ENVIRONMENTAL SERVICES
Water Discharge Permit

Pursuant to the Clean Water Act, as amended (33 U.S.C. 1251 et seq.), and the Louisiana Environmental Quality Act, as amended (La. R. S. 30:2001 et seq.), rules and regulations effective or promulgated under the authority of said Acts, and in reliance on statements and representations heretofore made in the application, a Louisiana Pollutant Discharge Elimination System permit is issued authorizing

PPG Industries, Inc. Industrial Chemicals
 Lake Charles Facility
 Post Office Box 1000
 Lake Charles, Louisiana 70602

Type Facility: Organic and inorganic chemical production and silica production facility

Location: 1300 PPG Drive in Lake Charles
 Calcasieu Parish

Receiving Waters: Local drainage, thence to Bayou D'Inde (Outfalls A01, B01, 10A, 10B, 20A, and 30A) - 030901, the Calcasieu Ship Canal (Outfall 002) - 030901, Bayou Verdine via the Olin ditch (Outfall 004) - 030306, and local drainage, thence to the Main Stem of the Calcasieu River (Proposed relocation of Outfall 001) - 030301

to discharge in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III attached hereto.

This permit shall become effective on _____

This permit and the authorization to discharge shall expire five (5) years from the effective date of the permit.

Issued on _____

 Chuck Carr Brown, Ph. D.
 Assistant Secretary

DRAFT

PART 1

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AI No. 1255

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**A01 PHASE I
PRE-TMDL PARAMETERS, PRE-WATER QUALITY PARAMETERS (NON-TMDL)
WHILE THE MERCURY CELL IS IN OPERATION
(USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A AND PHASE I OF INTERNAL OUTFALLS 10A & 20A)
BAYOU D'INDE LOCATION**

During the period beginning on the effective date and lasting until the June 12, 2008 move to Outfall A01 Phase II(*2); or the startup of Outfall B01 for the Mercury Cell Closure Transition (*1)(*2); or the startup of the Outfall 001 relocation from Bayou D'Inde to the Main Stem of the Calcasieu River (*1)(*2), the permittee is authorized to discharge from:

Outfall A01, the continuous discharge of process wastewater from Plant A brine treatment system; once-through non-contact cooling water; cooling tower blowdown; pH control reagents; treated sanitary wastewater; non-process wastewater including blowdown from incoming water purification system, boiler blowdown, and deionization unit regeneration water; effluent from neighboring industries Certain-Teed Products Corporation(*3) and Praxair Inc.; stormwater sources including low contamination potential stormwater runoff, post first flush stormwater, and stormwater run-on from offsite; intermittent sources of firewater, deluge system wastewater, hydrostatic testing, freeze protection, condensate piping, discharge from remediation activities, overflow from Sabine settling pond, potential ground water intrusion, and wastewater from treated spent hypochlorite; and discharges from Internal Outfalls 10A, 20A, and 30A (estimated flow is 172.1765 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
		Other Units					
		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)					
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*4)
pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes	82581	---	0(*5)	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes	82582	---	446(*5)	---	---	Continuous	Recorder
pH Minimum/Maximum Values (Standard Units)	00400	---	---	Report (Min)	Report (Max)	Continuous	Recorder
Temperature (°F)	00011	---	Report	---	---	Continuous	Recorder
BOD ₅	00310	8663	18510	---	---	3/week	24-hr. Composite
<u>METALS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
Total Nickel	01067	Report	Report	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase I - while the Mercury Cell is in operation)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)							
<u>METALS (TMDL PARAMETERS)(*6)(*8)</u>							
Total Copper	01042	---	Report(*9)	---	---	1/quarter	24-hr. Composite
Total Mercury	71900	---	Report(*9)	---	---	1/quarter	24-hr. Composite
<u>PESTICIDES (TMDL PARAMETER)(*6)(*8)</u>							
PCB -1254	39504	---	Report(*9)	---	---	1/quarter	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Hexachlorobutadiene	34391	0.06752	0.20256	---	---	1/week	24-hr. Composite
Hexachlorobenzene	39700	0.00010	0.00034	---	---	1/week	24-hr. Composite
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Bromoform	32104	41	81	---	---	1/week	24-hr. Composite
1,1,2,2-Tetrachloroethane	34516	---	Report(*9)	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
1,1- Dichloroethylene	34501	Report	Report	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (RECAP PARAMETERS)(*6)(*10)</u>							
1,1,1,2-Tetrachloroethane	77562	---	Report	---	---	1/year	24-hr. Composite
1,1,2-Trichloroethane	34511	---	Report	---	---	1/year	24-hr. Composite
1,1-Dichloroethene	61162	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethane	32103	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethene	38676	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloropropane	34541	---	Report	---	---	1/year	24-hr. Composite
Benzene	34030	---	Report	---	---	1/year	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS(RECAP PARAMETERS)(*6)(*10)</u>							
Bis(2-chloroethyl)Ether	34273	---	Report	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	---	Report	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	---	Report	---	---	1/year	24-hr. Composite
Chlorobenzene	34301	---	Report	---	---	1/year	24-hr. Composite
Chloroform	32106	---	Report	---	---	1/year	24-hr. Composite
Cis-1,2- Dichloroethene	03864	---	Report	---	---	1/year	24-hr. Composite
Dichloromethane	03821	---	Report	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	---	Report	---	---	1/year	24-hr. Composite
Naphthalene	34696	---	Report	---	---	1/year	24-hr. Composite
Pentachlorophenol	39032	---	Report	---	---	1/year	24-hr. Composite
Phenol	34694	---	Report	---	---	1/year	24-hr. Composite
Tetrachloroethene	78389	---	Report	---	---	1/year	24-hr. Composite
Thallium, Total	01059	---	Report	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase I - while the Mercury Cell is in operation)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Trichloroethene	78391	---	Report	---	---	1/year	24-hr. Composite
Vinyl Chloride	39175	---	Report	---	---	1/year	24-hr. Composite
<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING (*11)</u>	STORET Code(*12)			Monthly Avg 7-Day Minimum	Daily Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TLP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TOP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TPP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TGP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TQP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TLP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic <u>Mysidopsis bahia</u>	TOP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TPP3E	---	---	Report	Report	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase I - while the Mercury Cell is in operation)

<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING (*11)</u>	STORET Code(*12)			Monthly Avg Minimum	7-Day Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TGP3E ---	---		Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TQP3E ---	---		Report	Report	1/quarter	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Flow Location No. 1 - PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1).

Flow Location No. 2 - Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1.

Outfall A01 Sample Point for all parameters except flow (unless noted by footnote below or taken during remediation activities using an alternate location) - at the point of discharge from Mobile Bridge No. 1, prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Sample Points(*13) (For use during remediation activity only)

Alternate Location 1 - at the point of discharge from the sonar platform upstream of the weir on the discharge canal (Latitude 30° 12' 56", Longitude 93° 17' 18"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 2 - at the point of discharge from the salvage yard wood bridge (Latitude 30° 13' 11", Longitude 93° 17' 05"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 3 - at the point of discharge from pH probe wood platform near the neutralization tanks at Outfall A01 (Latitude 30° 13' 20", Longitude 93° 17' 06"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 4 - at the point of discharge from the riverside canal steel platform (Latitude 30° 13' 16", Longitude 93° 16' 53"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall B01 for the Mercury Cell Closure Transition or through Outfall 001 for the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall A01 Phase II start up, the move to Outfall B01 for the Mercury Cell Closure Transition, or the Outfall 001 relocation from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall A01 Phase II Limits, B01 limits, or 001 limits, respectively.
- (*3) Effluent from Certain-Teed Products Corporation is covered under LPDES Permit#LA0041025.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase I - while the Mercury Cell is in operation)

FOOTNOTE(S) CONTINUED:

- (*4) The daily flow value will be the arithmetic sum of the flow values monitored individually at Flow Location No. 1 [PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1)] and Flow Location No. 2 [Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1] during the same 24-hour sampling period.
- (*5) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*6) See Part II.J.
- (*7) See Compliance Schedule for Non-TMDL Water Quality Parameters at Part II.Q.
- (*8) See TMDL Requirements in Part II.N.
- (*9) The permittee shall conduct monitoring for these pollutants at Internal Outfalls 10A and 20A. On the Discharge Monitoring Report (DMR) this shall be reported as a Daily Maximum value to represent the **arithmetic sum of the daily pollutant mass discharges from these outfalls during the same 24-hour sampling period.**
- (*10) RECAP parameters placed into permit per request of the permittee.
- (*11) Reporting Outfall will be A01. Results shall be reported on DMR as Outfall TX1.
- (*12) Given test method or other, as approved at 40 CFR part 136.
- (*13) PPG shall use the furthest downstream alternate sampling location that is outside the influence of the remediation activity. If an alternate sample location was used, the applicable location must be indicated in the comment section of the Discharge Monitoring Report (DMR) for the affected monitoring periods.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A01 PHASE II
POST-TMDL PARAMETERS, PRE-WATER QUALITY PARAMETERS (NON-TMDL)
WHILE THE MERCURY CELL IS IN OPERATION
(USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A AND PHASE II OF INTERNAL OUTFALLS 10A & 20A)
BAYOU D'INDE LOCATION

During the period beginning upon startup of Outfall A01 Phase II beginning on June 13, 2008 and lasting until the move to Outfall A01 Phase III, three years after the effective date of the permit; or the startup of Outfall B01 for the Mercury Cell Closure Transition (*1)(*2); or the startup of the Outfall 001 relocation from Bayou D'Inde to the Main Stem of the Calcasieu River (*1)(*2) the permittee is authorized to discharge from:

Outfall A01, the continuous discharge of process wastewater from Plant A brine treatment system; once-through non-contact cooling water; cooling tower blowdown; pH control reagents; treated sanitary wastewater; non-process wastewater including blowdown from incoming water purification system, boiler blowdown, and deionization unit regeneration water; effluent from neighboring industries Certain-Teed Products Corporation(*3) and Praxair Inc.; stormwater sources including low contamination potential stormwater runoff, post first flush stormwater, and stormwater run-on from offsite; intermittent sources of firewater, deluge system wastewater, hydrostatic testing, freeze protection, condensate piping, discharge from remediation activities, overflow from Sabine settling pond, potential ground water intrusion, and wastewater from treated spent hypochlorite; and discharges from Internal Outfalls 10A, 20A, and 30A (estimated flow is 172.1765 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>					<u>Monitoring Requirements</u>	
	Other Units					Measurement Frequency	Sample Type
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*4)
pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes	82581	---	0(*5)	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes	82582	---	446(*5)	---	---	Continuous	Recorder
pH Minimum/Maximum Value (Standard Units)	00400	---	---	Report (Min)	Report (Max)	Continuous	Recorder
Temperature (°F)	00011	---	Report	---	---	Continuous	Recorder
BOD ₅	00310	8663	18510	---	---	3/week	24-hr. Composite
<u>METALS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
Total Nickel	01067	Report	Report	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase II - while the Mercury Cell is in operation)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
<u>METALS (TMDL PARAMETERS)(*6)(*8)</u>							
Total Copper(*9)	01042	---	1.240000(*10)	---	---	1/quarter	24-hr. Composite
Total Mercury(*11)	71900	---	0.008540(*12)	---	---	1/quarter	24-hr. Composite
<u>PESTICIDES (TMDL PARAMETER)(*6)(*8)</u>							
PCB -1254(*13)	39504	---	0.0000124(*14)	---	---	1/quarter	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Hexachlorobutadiene(*15)	34391	---	0.132000(*16)	---	---	1/week	24-hr. Composite
Hexachlorobenzene(*17)	39700	---	0.000310(*18)	---	---	1/week	24-hr. Composite
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Bromoform	32104	---	43.000000(*19)	---	---	1/week	24-hr. Composite
1,1,2,2-Tetrachloroethane	34516	---	2.230000(*20)	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
1,1- Dichloroethylene	34501	Report	Report	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (RECAP PARAMETERS)(*6)(*21)</u>							
1,1,1,2-Tetrachloroethane	77562	---	Report	---	---	1/year	24-hr. Composite
1,1,2-Trichloroethane	34511	---	Report	---	---	1/year	24-hr. Composite
1,1-Dichloroethene	61162	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethane	32103	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethene	38676	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloropropane	34541	---	Report	---	---	1/year	24-hr. Composite
Benzene	34030	---	Report	---	---	1/year	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (RECAP PARAMETERS)(*6)(*21)</u>							
Bis(2-chloroethyl)Ether	34273	---	Report	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	---	Report	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	---	Report	---	---	1/year	24-hr. Composite
Chlorobenzene	34301	---	Report	---	---	1/year	24-hr. Composite
Chloroform	32106	---	Report	---	---	1/year	24-hr. Composite
Cis-1,2- Dichloroethene	03864	---	Report	---	---	1/year	24-hr. Composite
Dichloromethane	03821	---	Report	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	---	Report	---	---	1/year	24-hr. Composite
Naphthalene	34696	---	Report	---	---	1/year	24-hr. Composite
Pentachlorophenol	39032	---	Report	---	---	1/year	24-hr. Composite
Phenol	46000	---	Report	---	---	1/year	24-hr. Composite
Tetrachloroethene	78389	---	Report	---	---	1/year	24-hr. Composite
Thallium, Total	01059	---	Report	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase II - while the Mercury Cell is in operation)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)		Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Trichloroethene	78391	---	Report	---	---	1/year	24-hr. Composite
Vinyl Chloride	39175	---	Report	---	---	1/year	24-hr. Composite
<u>WHOLE EFFLUENT (CHRONIC)</u>					(Percent %, UNLESS STATED)		
<u>TOXICITY TESTING (*22)</u>	STORET Code(*23)			Monthly Avg 7-Day Minimum	Daily Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TLP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TOP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TPP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TGP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TQP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TLP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic <u>Mysidopsis bahia</u>	TOP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TPP3E	---	---	Report	Report	1/quarter	24-hr. Composite

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AI No. 1255

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase II - while the Mercury Cell is in operation)

<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			Sample Type
<u>TOXICITY TESTING (*22)</u>	STORET Code(*23)			Monthly Avg Minimum	7-Day Minimum	Measurement Frequency	
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TGP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TQP3E	---	---	Report	Report	1/quarter	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Flow Location No. 1 - PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1).

Flow Location No. 2 - Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1.

Outfall A01 Sample Point for all parameters except flow (unless noted by footnote below or taken during remediation activities using an alternate location) - at the point of discharge from Mobile Bridge No. 1, prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Sample Points(*24) (For use during remediation activity only)

Alternate Location 1 - at the point of discharge from the sonar platform upstream of the weir on the discharge canal (Latitude 30° 12' 56", Longitude 93° 17' 18"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 2 - at the point of discharge from the salvage yard wood bridge (Latitude 30° 13' 11", Longitude 93° 17' 05"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 3 - at the point of discharge from pH probe wood platform near the neutralization tanks at Outfall A01 (Latitude 30° 13' 20", Longitude 93° 17' 06"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 4 - at the point of discharge from the riverside canal steel platform (Latitude 30° 13' 16", Longitude 93° 16' 53"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall B01 for the Mercury Cell Closure Transition or through Outfall 001 for the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall A01 Phase III start up, the move to Outfall B01 for the Mercury Cell Closure Transition, or the Outfall 001 relocation from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall A01 Phase III Limits, B01 limits, or 001 limits, respectively.
- (*3) Effluent from Certain-Teed Products Corporation is covered under LPDES Permit#LA0041025.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase II - while the Mercury Cell is in operation)

FOOTNOTE(S) CONTINUED:

- (*4) The daily flow value will be the arithmetic sum of the flow values monitored individually at Flow Location No. 1 [PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1)] and Flow Location No. 2 [Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1] during the same 24-hour sampling period.
- (*5) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*6) See Part II.J.
- (*7) See Compliance Schedule for Non-TMDL Water Quality Parameters at Part II.Q.
- (*8) See TMDL Requirements in Part II.N.
- (*9) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 9.12 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 9.12 $\mu\text{g/L}$ for Total Copper. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*10) The permittee shall conduct Total Copper monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Copper loading of 1.240000 lbs/day.
- (*11) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.0628 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.0628 $\mu\text{g/L}$ for Total Mercury. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*12) The permittee shall conduct Total Mercury monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Mercury loading of 0.008540 lbs/day.
- (*13) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.000088 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.000088 $\mu\text{g/L}$ for PCB -1254. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*14) The permittee shall conduct PCB-1254 monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum PCB-1254 loading of 0.0000124 lbs/day.
- (*15) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.97118 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.97118 $\mu\text{g/L}$ for Hexachlorobutadiene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*16) The permittee shall conduct Hexachlorobutadiene monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Hexachlorobutadiene loading of 0.132000 lbs/day.
- (*17) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.00228 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.00228 $\mu\text{g/L}$ for Hexachlorobenzene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase II - while the Mercury Cell is in operation)

FOOTNOTE(S) CONTINUED:

- (*18) The permittee shall conduct Hexachlorobenzene monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Hexachlorobenzene loading of 0.000310 lbs/day.
- (*19) The permittee shall conduct Bromoform monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Bromoform loading of 43.000000 lbs/day.
- (*20) The permittee shall conduct 1,1,2,2-Tetrachloroethane monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum 1,1,2,2-Tetrachloroethane loading of 2.230000 lbs/day.
- (*21) RECAP parameters placed into permit per request of the permittee
- (*22) Reporting Outfall will be A01. Results shall be reported on DMR as Outfall TX1.
- (*23) Given test method or other, as approved at 40 CFR part 136.
- (*24) PPG shall use the furthest downstream alternate sampling location that is outside the influence of the remediation activity. If an alternate sample location was used, the applicable location must be indicated in the comment section of the Discharge Monitoring Report (DMR) for the affected monitoring periods.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**A01 PHASE III
POST-TMDL PARAMETERS, POST-WATER QUALITY PARAMETERS (NON-TMDL)
WHILE THE MERCURY CELL IS IN OPERATION
(USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A AND PHASE II OF INTERNAL OUTFALLS 10A & 20A)
BAYOU D'INDE LOCATION**

During the period beginning upon startup of Outfall A01 Phase III, three years from the effective date of the permit and lasting until the startup of Outfall B01 for the Mercury Cell Closure Transition (*1)(*2); or the startup of the Outfall 001 relocation from Bayou D'Inde to the Main Stem of the Calcasieu River; or permit expiration the permittee is authorized to discharge from:

Outfall A01, the continuous discharge of process wastewater from Plant A brine treatment system; once-through non-contact cooling water; cooling tower blowdown; pH control reagents; treated sanitary wastewater; non-process wastewater including blowdown from incoming water purification system, boiler blowdown, and deionization unit regeneration water; effluent from neighboring industries Certain-Teed Products Corporation(*3) and Praxair Inc.; stormwater sources including low contamination potential stormwater runoff, post first flush stormwater, and stormwater run-on from offsite; intermittent sources of firewater, deluge system wastewater, hydrostatic testing, freeze protection, condensate piping, discharge from remediation activities, overflow from Sabine settling pond, potential ground water intrusion, and wastewater from treated spent hypochlorite; and discharges from Internal Outfalls 10A, 20A, and 30A (estimated flow is 172.1765 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units					
		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)					
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*4)
pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes	82581	---	0(*5)	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes	82582	---	446(*5)	---	---	Continuous	Recorder
pH Minimum/Maximum Values (Standard Units)	00400	---	---	Report (Min)	Report (Max)	Continuous	Recorder
Temperature (°F)	00011	---	Report	---	---	Continuous	Recorder
BOD ₅	00310	8663	18510	---	---	3/week	24-hr. Composite
METALS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)							
Total Nickel	01067	13.59510	32.27539	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase III - while the Mercury Cell is in operation)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)						
STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum			
<u>METALS (TMDL PARAMETERS)(*6)(*8)</u>							
Total Copper(*9)	01042	---	1.240000(*10)	---	---	1/quarter	24-hr. Composite
Total Mercury(*11)	71900	---	0.008540(*12)	---	---	1/quarter	24-hr. Composite
<u>PESTICIDES (TMDL PARAMETER)(*6)(*8)</u>							
PCB -1254(*13)	39504	---	0.0000124(*14)		---	---	1/quarter
24-hr. Composite							
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Hexachlorobutadiene(*15)	34391	---	0.132000(*16)	---	---	1/week	24-hr. Composite
Hexachlorobenzene(*17)	39700	---	0.000310(*18)	---	---	1/week	24-hr. Composite
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Bromoform	32104	---	43.000000(*19)	---	---	1/week	24-hr. Composite
1,1,2,2-Tetrachloroethane	34516	---	2.230000(*20)	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
1,1- Dichloroethylene	34501	2.204345	5.246342	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (RECAP PARAMETERS)(*6)(*21)</u>							
1,1,1,2-Tetrachloroethane	77562	---	Report	---	---	1/year	24-hr. Composite
1,1,2-Trichloroethane	34511	---	Report	---	---	1/year	24-hr. Composite
1,1-Dichloroethene	61162	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethane	32103	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethene	38676	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloropropane	34541	---	Report	---	---	1/year	24-hr. Composite
Benzene	34030	---	Report	---	---	1/year	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS(RECAP PARAMETERS)(*6)(*21)</u>							
Bis(2-chloroethyl)Ether	34273	---	Report	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	---	Report	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	---	Report	---	---	1/year	24-hr. Composite
Chlorobenzene	34301	---	Report	---	---	1/year	24-hr. Composite
Chloroform	32106	---	Report	---	---	1/year	24-hr. Composite
Cis-1,2- Dichloroethene	03864	---	Report	---	---	1/year	24-hr. Composite
Dichloromethane	03821	---	Report	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	---	Report	---	---	1/year	24-hr. Composite
Naphthalene	34696	---	Report	---	---	1/year	24-hr. Composite
Pentachlorophenol	39032	---	Report	---	---	1/year	24-hr. Composite
Phenol	34694	---	Report	---	---	1/year	24-hr. Composite
Tetrachloroethene	78389	---	Report	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase III - while the Mercury Cell is in operation)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)						
	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Thallium, Total	01059	---	Report	---	---	1/year	24-hr. Composite
Trichloroethene	78391	---	Report	---	---	1/year	24-hr. Composite
Vinyl Chloride	39175	---	Report	---	---	1/year	24-hr. Composite
<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING (*22)</u>	STORET Code(*23)			Monthly Avg Minimum	7-Day Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TLP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TOP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TPP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TGP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TQP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TLP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic <u>Mysidopsis bahia</u>	TOP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TPP3E	---	---	Report	Report	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase III - while the Mercury Cell is in operation)

<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING (*22)</u>	STORET			Monthly Avg 7-Day	Measurement	Sample	
	Code(*23)			Minimum	Frequency	Type	
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TGP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TQP3E	---	---	Report	Report	1/quarter	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Flow Location No. 1 - PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1).

Flow Location No. 2 - Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1.

Outfall A01 Sample Point for all parameters except flow (unless noted by footnote below or taken during remediation activities using an alternate location) - at the point of discharge from Mobile Bridge No. 1, prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Sample Points(*24) (For use during remediation activity only)

Alternate Location 1 - at the point of discharge from the sonar platform upstream of the weir on the discharge canal (Latitude 30° 12' 56", Longitude 93° 17' 18"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 2 - at the point of discharge from the salvage yard wood bridge (Latitude 30° 13' 11", Longitude 93° 17' 05"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 3 - at the point of discharge from pH probe wood platform near the neutralization tanks at Outfall A01 (Latitude 30° 13' 20", Longitude 93° 17' 06"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 4 - at the point of discharge from the riverside canal steel platform (Latitude 30° 13' 16", Longitude 93° 16' 53"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall B01 for the Mercury Cell Closure Transition or through Outfall 001 for the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon the move to Outfall B01 for the Mercury Cell Closure Transition, or the Outfall 001 relocation from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be B01 limits or 001 limits, respectively.
- (*3) Effluent from Certain-Teed Products Corporation is covered under LPDES Permit#LA0041025.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase III - while the Mercury Cell is in operation)

FOOTNOTE(S) CONTINUED:

- (*4) The daily flow value will be the arithmetic sum of the flow values monitored individually at Flow Location No. 1 [PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1)] and Flow Location No. 2 [Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1] during the same 24-hour sampling period.
- (*5) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*6) See Part II.J.
- (*7) See Compliance Schedule for Non-TMDL Water Quality Parameters at Part II.Q.
- (*8) See TMDL Requirements in Part II.N.
- (*9) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 9.12 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 9.12 $\mu\text{g/L}$ for Total Copper. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*10) The permittee shall conduct Total Copper monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Copper loading of 0.730000 lbs/day.
- (*11) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.0628 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.0628 $\mu\text{g/L}$ for Total Mercury. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*12) The permittee shall conduct Total Mercury monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Mercury loading of 0.008540 lbs/day.
- (*13) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.000088 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.000088 $\mu\text{g/L}$ for PCB -1254. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*14) The permittee shall conduct PCB-1254 monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum PCB-1254 loading of 0.0000124 lbs/day.
- (*15) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.97118 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.97118 $\mu\text{g/L}$ for Hexachlorobutadiene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*16) The permittee shall conduct Hexachlorobutadiene monitoring at Internal Outfalls 10A and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Hexachlorobutadiene loading of 0.132000 lbs/day.
- (*17) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.00228 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.00228 $\mu\text{g/L}$ for Hexachlorobenzene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall A01 Limitations - Phase III - while the Mercury Cell is in operation)

FOOTNOTE(S) CONTINUED:

- (*18) The permittee shall conduct Hexachlorobenzene monitoring at Internal Outfalls 10A and 20A. The **flow-weighted combined loading** of the outfalls shall not exceed the Daily Maximum Hexachlorobenzene loading of 0.000310 lbs/day.
- (*19) The permittee shall conduct Bromoform monitoring at Internal Outfalls 10A and 20A. The **flow-weighted combined loading** of the outfalls shall not exceed the Daily Maximum Bromoform loading of 43.000000 lbs/day.
- (*20) The permittee shall conduct 1,1,2,2-Tetrachloroethane monitoring at Internal Outfalls 10A and 20A. The **flow-weighted combined loading** of the outfalls shall not exceed the Daily Maximum 1,1,2,2-Tetrachloroethane loading of 2.230000 lbs/day.
- (*21) RECAP parameters placed into permit per request of the permittee
- (*22) Reporting Outfall will be A01. Results shall be reported on DMR as Outfall TX1.
- (*23) Given test method or other, as approved at 40 CFR part 136.
- (*24) PPG shall use the furthest downstream alternate sampling location that is outside the influence of the remediation activity. If an alternate sample location was used, the applicable location must be indicated in the comment section of the Discharge Monitoring Report (DMR) for the affected monitoring periods.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

B01 PHASE I
PRE-TMDL PARAMETERS, PRE-WATER QUALITY PARAMETERS (NON-TMDL)
MERCURY CELL CLOSURE IN TRANSITION
(USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A AND PHASE I OF INTERNAL OUTFALLS 10B & 20A)
BAYOU D'INDE LOCATION

During the period beginning upon the startup of Outfall B01 for the Mercury Cell Closure Transition (*1)(*2) prior to June 12, 2008 and lasting until the June 12, 2008 move into Outfall B01 Phase II; or the startup of Outfall 001 after the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River(*1)(*2) the permittee is authorized to discharge from:

Outfall B01, the continuous discharge of process wastewater from Plant A brine treatment system; once-through non-contact cooling water; cooling tower blowdown; pH control reagents; treated sanitary wastewater; non-process wastewater including blowdown from incoming water purification system, boiler blowdown, and deionization unit regeneration water; effluent from neighboring industries Certain-Teed Products Corporation(*3) and Praxair Inc.; stormwater sources including low contamination potential stormwater runoff, post first flush stormwater, and stormwater run-on from offsite; intermittent sources of firewater, deluge system wastewater, hydrostatic testing, freeze protection, condensate piping, discharge from remediation activities, overflow from Sabine settling pond, potential ground water intrusion, and wastewater from treated spent hypochlorite; sulfuric acid stripper water; evaporator area pump seal water; HCL area pump seal water; and discharges from Internal Outfalls 10B, 20A, and 30A (estimated flow is 172.2773 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)		Measurement Frequency	Sample Type
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*4)
pH Range Excursions (Continuous Monitoring), Number of Events > 60 Minutes	82581	---	0(*5)	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes	82582	---	446(*5)	---	---	Continuous	Recorder
pH Minimum/Maximum Values (Standard Units)	00400	---	---	Report (Min)	Report (Max)	Continuous	Recorder
Temperature (°F)	00011	---	Report	---	---	Continuous	Recorder
BOD ₅	00310	8689	18579	---	---	3/week	24-hr. Composite
<u>METALS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
Total Nickel	01067	Report	Report	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase I - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)						
STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum			
<u>METALS (TMDL PARAMETERS)(*6)(*8)</u>							
Total Copper	01042	---	Report(*9)	---	---	1/quarter	24-hr. Composite
Total Mercury	71900	---	Report(*9)	---	---	1/quarter	24-hr. Composite
<u>PESTICIDES (TMDL PARAMETER)(*6)(*8)</u>							
PCB -1254	39504	---	Report(*9)	---	---	1/quarter	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Hexachlorobutadiene	34391	0.06752	0.20256	---	---	1/week	24-hr. Composite
Hexachlorobenzene	39700	0.00010	0.00034	---	---	1/week	24-hr. Composite
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Bromoform	32104	41	81	---	---	1/week	24-hr. Composite
1,1,2,2-Tetrachloroethane	34516	---	Report(*9)	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
1,1- Dichloroethylene	34501	Report	Report	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (RECAP PARAMETERS)(*6)(*10)</u>							
1,1,1,2-Tetrachloroethane	77562	---	Report	---	---	1/year	24-hr. Composite
1,1,2-Trichloroethane	34511	---	Report	---	---	1/year	24-hr. Composite
1,1-Dichloroethene	61162	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethane	32103	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethene	38676	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloropropane	34541	---	Report	---	---	1/year	24-hr. Composite
Benzene	34030	---	Report	---	---	1/year	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS(RECAP PARAMETERS)(*6)(*10)</u>							
Bis(2-chloroethyl)Ether	34273	---	Report	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	---	Report	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	---	Report	---	---	1/year	24-hr. Composite
Chlorobenzene	34301	---	Report	---	---	1/year	24-hr. Composite
Chloroform	32106	---	Report	---	---	1/year	24-hr. Composite
Cis-1,2- Dichloroethene	03864	---	Report	---	---	1/year	24-hr. Composite
Dichloromethane	03821	---	Report	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	---	Report	---	---	1/year	24-hr. Composite
Naphthalene	34696	---	Report	---	---	1/year	24-hr. Composite
Pentachlorophenol	39032	---	Report	---	---	1/year	24-hr. Composite
Phenol	34694	---	Report	---	---	1/year	24-hr. Composite
Tetrachloroethene	78389	---	Report	---	---	1/year	24-hr. Composite
Thallium, Total	01059	---	Report	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase I - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Trichloroethene	78391	---	Report	---	---	1/year	24-hr. Composite
Vinyl Chloride	39175	---	Report	---	---	1/year	24-hr. Composite
<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING (*11)</u>	STORET Code(*12)			Monthly Avg Minimum	7-Day Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TLP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TOP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TPP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TGP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TQP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TLP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TOP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TPP3E	---	---	Report	Report	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase I - Mercury Cell closure in transition)

<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING (*11)</u>	STORET			Monthly Avg	7-Day	Measurement	Sample
	Code(*12)			Minimum	Minimum	Frequency	Type
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TGP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TQP3E	---	---	Report	Report	1/quarter	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Flow Location No. 1 - PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1).

Flow Location No. 2 - Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1.

Outfall B01 Sample Point for all parameters except flow (unless noted by footnote below or taken during remediation activities using an alternate location) - at the point of discharge from Mobile Bridge No. 1, prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Sample Points(*13) (For use during remediation activity only)

Alternate Location 1 - at the point of discharge from the sonar platform upstream of the weir on the discharge canal (Latitude 30° 12' 56", Longitude 93° 17" 18"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 2 - at the point of discharge from the salvage yard wood bridge (Latitude 30° 13' 11", Longitude 93° 17" 05"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 3 - at the point of discharge from pH probe wood platform near the neutralization tanks at Outfall A01 (Latitude 30° 13' 20", Longitude 93° 17" 06"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 4 - at the point of discharge from the riverside canal steel platform (Latitude 30° 13' 16", Longitude 93° 16" 53"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 001 for the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall B01 Phase II start up, or the Outfall 001 relocation from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall B01 Phase II Limits or 001 limits, respectively.
- (*3) Effluent from Certain-Teed Products Corporation is covered under LPDES Permit#LA0041025.
- (*4) The daily flow value will be the arithmetic sum of the flow values monitored individually at Flow Location No. 1 [PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1)] and Flow Location No. 2 [Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1] during the same 24-hour sampling period.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase I - Mercury Cell closure in transition)

FOOTNOTE(S) CONTINUED:

- (*5) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*6) See Part II.J.
- (*7) See Compliance Schedule for Non-TMDL Water Quality Parameters at Part II.Q.
- (*8) See TMDL Requirements in Part II.N.
- (*9) The permittee shall conduct monitoring for these pollutants at Internal Outfalls 10B and 20A. On the Discharge Monitoring Report (DMR) this shall be reported as a Daily Maximum value to represent the **arithmetic sum of the daily pollutant mass discharges from these outfalls during the same 24-hour sampling period.**
- (*10) RECAP parameters placed into permit per request of the permittee
- (*11) Reporting Outfall will be B01. Results shall be reported on DMR as Outfall TX1.
- (*12) Given test method or other, as approved at 40 CFR part 136.
- (*13) PPG shall use the furthest downstream alternate sampling location that is outside the influence of the remediation activity. If an alternate sample location was used, the applicable location must be indicated in the comment section of the Discharge Monitoring Report (DMR) for the affected monitoring periods.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

B01 PHASE II
POST-TMDL PARAMETERS, PRE-WATER QUALITY PARAMETERS (NON-TMDL)
MERCURY CELL CLOSURE IN TRANSITION
(USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A AND PHASE II OF INTERNAL OUTFALLS 10B & 20A)
BAYOU D'INDE LOCATION

During the period beginning upon startup of Outfall B01 Phase II beginning on June 13, 2008 and lasting until the move into Outfall B01 Phase III, three years after the effective date of the permit; or the startup of Outfall 001 after the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River(*1)(*2) the permittee is authorized to discharge from:

Outfall B01, the continuous discharge of process wastewater from Plant A brine treatment system; once-through non-contact cooling water; cooling tower blowdown; pH control reagents; treated sanitary wastewater; non-process wastewater including blowdown from incoming water purification system, boiler blowdown, and deionization unit regeneration water; effluent from neighboring industries Certain-Teed Products Corporation(*3) and Praxair Inc.; stormwater sources including low contamination potential stormwater runoff, post first flush stormwater, and stormwater run-on from offsite; intermittent sources of firewater, deluge system wastewater, hydrostatic testing, freeze protection, condensate piping, discharge from remediation activities, overflow from Sabine settling pond, potential ground water intrusion, and wastewater from treated spent hypochlorite; sulfuric acid stripper water; evaporator area pump seal water; HCL area pump seal water; and discharges from Internal Outfalls 10B, 20A, and 30A (estimated flow is 172.2773 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>					<u>Monitoring Requirements</u>	
		Other Units					
		(lbs/day, UNLESS STATED)	(ug/L, UNLESS STATED)				
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*4)
pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes	82581	---	0(*5)	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes	82582	---	446(*5)	---	---	Continuous	Recorder
pH Minimum/Maximum Values (Standard Units)	00400	---	---	Report (Min)	Report (Max)	Continuous	Recorder
Temperature (°F)	00011	---	Report	---	---	Continuous	Recorder
BOD ₅	00310	8689	18579	---	---	3/week	24-hr. Composite
<u>METALS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
Total Nickel	01067	Report	Report	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase II - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)						
STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum			
<u>METALS (TMDL PARAMETERS)(*6)(*8)</u>							
Total Copper(*9)	01042	---	1.240000(*10)	---	---	1/quarter	24-hr. Composite
Total Mercury(*11)	71900	---	0.008540(*12)	---	---	1/quarter	24-hr. Composite
<u>PESTICIDES (TMDL PARAMETER)(*6)(*8)</u>							
PCB -1254(*13)	39504	---	0.0000124(*14)	---	---	1/quarter	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Hexachlorobutadiene(*15)	34391	---	0.132000(*16)	---	---	1/week	24-hr. Composite
Hexachlorobenzene(*17)	39700	---	0.000310(*18)	---	---	1/week	24-hr. Composite
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Bromoform	32104	---	43.000000(*19)	---	---	1/week	24-hr. Composite
1,1,2,2-Tetrachloroethane	34516	---	2.230000(*20)	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
1,1- Dichloroethylene	34501	Report	Report	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (RECAP PARAMETERS)(*6)(*21)</u>							
1,1,1,2-Tetrachloroethane	77562	---	Report	---	---	1/year	24-hr. Composite
1,1,2-Trichloroethane	34511	---	Report	---	---	1/year	24-hr. Composite
1,1-Dichloroethene	61162	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethane	32103	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethene	38676	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloropropane	34541	---	Report	---	---	1/year	24-hr. Composite
Benzene	34030	---	Report	---	---	1/year	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS(RECAP PARAMETERS)(*6)(*21)</u>							
Bis(2-chloroethyl)Ether	34273	---	Report	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	---	Report	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	---	Report	---	---	1/year	24-hr. Composite
Chlorobenzene	34301	---	Report	---	---	1/year	24-hr. Composite
Chloroform	32106	---	Report	---	---	1/year	24-hr. Composite
Cis-1,2- Dichloroethene	03864	---	Report	---	---	1/year	24-hr. Composite
Dichloromethane	03821	---	Report	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	---	Report	---	---	1/year	24-hr. Composite
Naphthalene	34696	---	Report	---	---	1/year	24-hr. Composite
Pentachlorophenol	39032	---	Report	---	---	1/year	24-hr. Composite
Phenol	34694	---	Report	---	---	1/year	24-hr. Composite
Tetrachloroethene	78389	---	Report	---	---	1/year	24-hr. Composite
Thallium, Total	01059	---	Report	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase II - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units				Measurement Frequency	Sample Type
		(lbs/day, UNLESS STATED)	(ug/L, UNLESS STATED)	Monthly Average	Daily Maximum		
Trichloroethene	78391	---	Report	---	---	1/year	24-hr. Composite
Vinyl Chloride	39175	---	Report	---	---	1/year	24-hr. Composite
<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING (*22)</u>	STORET Code(*23)			Monthly Avg 7-Day Minimum	Daily Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TLP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TOP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TPP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TGP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TQP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TLP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic <u>Mysidopsis bahia</u>	TOP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TPP3E	---	---	Report	Report	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase II - Mercury Cell closure in transition)

WHOLE EFFLUENT (CHRONIC)				(Percent %, UNLESS STATED)			
TOXICITY TESTING (*22)		STORET Code(*23)		Monthly Avg 7-Day Minimum	Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>		TGP3E	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>		TQP3E	---	Report	Report	1/quarter	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Flow Location No. 1 - PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1).

Flow Location No. 2 - Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1.

Outfall B01 Sample Point for all parameters except flow (unless noted by footnote below or taken during remediation activities using an alternate location) - at the point of discharge from Mobile Bridge No. 1, prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Sample Points(*24) (For use during remediation activity only)

Alternate Location 1 - at the point of discharge from the sonar platform upstream of the weir on the discharge canal (Latitude 30° 12' 56", Longitude 93° 17' 18"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 2 - at the point of discharge from the salvage yard wood bridge (Latitude 30° 13' 11", Longitude 93° 17' 05"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 3 - at the point of discharge from pH probe wood platform near the neutralization tanks at Outfall A01 (Latitude 30° 13' 20", Longitude 93° 17' 06"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 4 - at the point of discharge from the riverside canal steel platform (Latitude 30° 13' 16", Longitude 93° 16' 53"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 001 for the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall B01 Phase III startup, or the Outfall 001 relocation from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall B01 Phase III Limits or 001 limits, respectively.
- (*3) Effluent from Certain-Teed Products Corporation is covered under LPDES Permit#LA0041025.
- (*4) The daily flow value will be the arithmetic sum of the flow values monitored individually at Flow Location No. 1 [PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1)] and Flow Location No. 2 [Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1] during the same 24-hour sampling period.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase II - Mercury Cell closure in transition)

FOOTNOTE(S) CONTINUED:

- (*5) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*6) See Part II.J.
- (*7) See Compliance Schedule for Non-TMDL Water Quality Parameters at Part II.Q.
- (*8) See TMDL Requirements in Part II.N.
- (*9) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 9.12 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 9.12 $\mu\text{g/L}$ for Total Copper. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*10) The permittee shall conduct Total Copper monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Copper loading of 1.240000 lbs/day.
- (*11) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.0628 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.0628 $\mu\text{g/L}$ for Total Mercury. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*12) The permittee shall conduct Total Mercury monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Mercury loading of 0.008540 lbs/day.
- (*13) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.000088 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.000088 $\mu\text{g/L}$ for PCB -1254. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*14) The permittee shall conduct PCB-1254 monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum PCB-1254 loading of 0.0000124 lbs/day.
- (*15) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.97118 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.97118 $\mu\text{g/L}$ for Hexachlorobutadiene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*16) The permittee shall conduct Hexachlorobutadiene monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Hexachlorobutadiene loading of 0.132000 lbs/day.
- (*17) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.00228 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.00228 $\mu\text{g/L}$ for Hexachlorobenzene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*18) The permittee shall conduct Hexachlorobenzene monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Hexachlorobenzene loading of 0.000310 lbs/day.
- (*19) The permittee shall conduct Bromoform monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Bromoform loading of 43.000000 lbs/day.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase II - Mercury Cell closure in transition)

FOOTNOTE(S) CONTINUED:

- (*20) The permittee shall conduct 1,1,2,2-Tetrachloroethane monitoring at Internal Outfalls 10B and 20A. The **flow-weighted combined loading** of the outfalls shall not exceed the Daily Maximum 1,1,2,2-Tetrachloroethane loading of 2.230000 lbs/day.
- (*21) RECAP parameters placed into permit per request of the permittee
- (*22) Reporting Outfall will be B01. Results shall be reported on DMR as Outfall TX1.
- (*23) Given test method or other, as approved at 40 CFR part 136.
- (*24) PPG shall use the furthest downstream alternate sampling location that is outside the influence of the remediation activity. If an alternate sample location was used, the applicable location must be indicated in the comment section of the Discharge Monitoring Report (DMR) for the affected monitoring periods.

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AI No. 1255

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**B01 PHASE III
POST-TMDL PARAMETERS, POST-WATER QUALITY PARAMETERS (NON-TMDL)
MERCURY CELL CLOSURE IN TRANSITION
(USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A AND PHASE II OF INTERNAL OUTFALLS 10B & 20A)
BAYOU D'INDE LOCATION**

During the period beginning upon startup of Outfall B01 Phase III, three years from the effective date of the permit and lasting until the startup of Outfall 001 after the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River (*1)(*2) or permit expiration, the permittee is authorized to discharge from:

Outfall B01, the continuous discharge of process wastewater from Plant A brine treatment system; once-through non-contact cooling water; cooling tower blowdown; pH control reagents; treated sanitary wastewater; non-process wastewater including blowdown from incoming water purification system, boiler blowdown, and deionization unit regeneration water; effluent from neighboring industries Certain-Teed Products Corporation(*3) and Praxair Inc.; stormwater sources including low contamination potential stormwater runoff, post first flush stormwater, and stormwater run-on from offsite; intermittent sources of firewater, deluge system wastewater, hydrostatic testing, freeze protection, condensate piping, discharge from remediation activities, overflow from Sabine settling pond, potential ground water intrusion, and wastewater from treated spent hypochlorite; sulfuric acid stripper water; evaporator area pump seal water; HCL area pump seal water; and discharges from Internal Outfalls 101, 201, and 301 (estimated flow is 172.2773 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)		Measurement Frequency	Sample Type
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*4)
pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes	82581	---	0(*5)	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes	82582	---	446(*5)	---	---	Continuous	Recorder
pH Minimum/Maximum Values (Standard Units)	00400	---	---	Report (Min)	Report (Max)	Continuous	Recorder
Temperature (°F)	00011	---	Report	---	---	Continuous	Recorder
BOD ₅	00310	8689	18579	---	---	3/week	24-hr. Composite
<u>METALS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
Total Nickel	01067	13.59510	32.27539	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase III - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)							
<u>METALS (TMDL PARAMETERS)(*6)(*8)</u>							
Total Copper(*9)	01042	---	1.240000(*10)	---	---	1/quarter	24-hr. Composite
Total Mercury(*11)	71900	---	0.008540(*12)	---	---	1/quarter	24-hr. Composite
<u>PESTICIDES (TMDL PARAMETER)(*6)(*8)</u>							
PCB -1254(*13)	39504	---	0.0000124(*14)	---	---	1/quarter	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Hexachlorobutadiene(*15)	34391	---	0.132000(*16)	---	---	1/week	24-hr. Composite
Hexachlorobenzene(*17)	39700	---	0.000310(*18)	---	---	1/week	24-hr. Composite
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Bromoform	32104	---	43.000000(*19)	---	---	1/week	24-hr. Composite
1,1,2,2-Tetrachloroethane	34516	---	2.230000(*20)	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
1,1- Dichloroethylene	34501	2.204345	5.246342	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (RECAP PARAMETERS)(*6)(*21)</u>							
1,1,1,2-Tetrachloroethane	77562	---	Report	---	---	1/year	24-hr. Composite
1,1,2-Trichloroethane	34511	---	Report	---	---	1/year	24-hr. Composite
1,1-Dichloroethene	61162	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethane	32103	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethene	38676	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloropropane	34541	---	Report	---	---	1/year	24-hr. Composite
Benzene	34030	---	Report	---	---	1/year	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (RECAP PARAMETERS)(*6)(*21)</u>							
Bis(2-chloroethyl)Ether	34273	---	Report	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	---	Report	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	---	Report	---	---	1/year	24-hr. Composite
Chlorobenzene	34301	---	Report	---	---	1/year	24-hr. Composite
Chloroform	32106	---	Report	---	---	1/year	24-hr. Composite
Cis-1,2- Dichloroethene	03864	---	Report	---	---	1/year	24-hr. Composite
Dichloromethane	03821	---	Report	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	---	Report	---	---	1/year	24-hr. Composite
Naphthalene	34696	---	Report	---	---	1/year	24-hr. Composite
Pentachlorophenol	39032	---	Report	---	---	1/year	24-hr. Composite
Phenol	34694	---	Report	---	---	1/year	24-hr. Composite
Tetrachloroethene	78389	---	Report	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase III - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units				Measurement Frequency	Sample Type
		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)					
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum			
Thallium, Total	01059	---	Report	---	---	1/year	24-hr. Composite
Trichloroethene	78391	---	Report	---	---	1/year	24-hr. Composite
Vinyl Chloride	39175	---	Report	---	---	1/year	24-hr. Composite
<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING (*22)</u>	STORET Code(*23)			Monthly Avg 7-Day Minimum	Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TLP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TOP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TPP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TGP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TQP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TLP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic <u>Mysidopsis bahia</u>	TOP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TPP3E	---	---	Report	Report	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase III - Mercury Cell closure in transition)

WHOLE EFFLUENT (CHRONIC)				(Percent %, UNLESS STATED)			
TOXICITY TESTING (*22)	STORET Code(*23)			Monthly Avg Minimum	7-Day Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TGP3E --- ---			Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TQP3E --- ---			Report	Report	1/quarter	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Flow Location No. 1 - PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1).

Flow Location No. 2 - Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1.

Outfall B01 Sample Point for all parameters except flow (unless noted by footnote below or taken during remediation activities using an alternate location) - at the point of discharge from Mobile Bridge No. 1, prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Sample Points(*24) (For use during remediation activity only)

Alternate Location 1 - at the point of discharge from the sonar platform upstream of the weir on the discharge canal (Latitude 30° 12' 56", Longitude 93° 17" 18"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 2 - at the point of discharge from the salvage yard wood bridge (Latitude 30° 13' 11", Longitude 93° 17" 05"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 3 - at the point of discharge from pH probe wood platform near the neutralization tanks at Outfall A01 (Latitude 30° 13' 20", Longitude 93° 17" 06"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

Alternate Location 4 - at the point of discharge from the riverside canal steel platform (Latitude 30° 13' 16", Longitude 93° 16" 53"), prior to combining with any other wastewaters and/or the waters of Bayou D'Inde.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through the relocation of outfall to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon outfall relocation, these limits will be null and void. Outfall 001 schedules (Phases I, II, and/or III) will be applicable.
- (*3) Effluent from Certain-Teed Products Corporation is covered under LPDES Permit#LA0041025.
- (*4) The daily flow value will be the arithmetic sum of the flow values monitored individually at Flow Location No. 1 [PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1)] and Flow Location No. 2 [Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1] during the same 24-hour sampling period.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase III - Mercury Cell closure in transition)

FOOTNOTE(S) CONTINUED:

- (*5) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*6) See Part II.J.
- (*7) See Compliance Schedule for Non-TMDL Water Quality Parameters at Part II.Q.
- (*8) See TMDL Requirements in Part II.N.
- (*9) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 9.12 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 9.12 $\mu\text{g/L}$ for Total Copper. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*10) The permittee shall conduct Total Copper monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Copper loading of 1.240000 lbs/day.
- (*11) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.0628 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.0628 $\mu\text{g/L}$ for Total Mercury. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*12) The permittee shall conduct Total Mercury monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Mercury loading of 0.008540 lbs/day.
- (*13) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.000088 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.000088 $\mu\text{g/L}$ for PCB -1254. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*14) The permittee shall conduct PCB-1254 monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum PCB-1254 loading of 0.0000124 lbs/day.
- (*15) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.97118 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.97118 $\mu\text{g/L}$ for Hexachlorobutadiene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*16) The permittee shall conduct Hexachlorobutadiene monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Hexachlorobutadiene loading of 0.132000 lbs/day.
- (*17) As an exception to the MQL located at Part II Paragraph J, the permittee is required to utilize an EPA approved test method with a detection level less than 0.00228 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 0.00228 $\mu\text{g/L}$ for Hexachlorobenzene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*18) The permittee shall conduct Hexachlorobenzene monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Hexachlorobenzene loading of 0.000310 lbs/day.
- (*19) The permittee shall conduct Bromoform monitoring at Internal Outfalls 10B and 20A. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Bromoform loading of 43.000000 lbs/day.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall B01 Limitations - Phase III - Mercury Cell closure in transition)

FOOTNOTE(S) CONTINUED:

- (*20) The permittee shall conduct 1,1,2,2-Tetrachloroethane monitoring at Internal Outfalls 10B and 20A. The **flow-weighted combined loading** of the outfalls shall not exceed the Daily Maximum 1,1,2,2-Tetrachloroethane loading of 2.230000 lbs/day.
- (*21) RECAP parameters placed into permit per request of the permittee
- (*22) Reporting Outfall will be B01. Results shall be reported on DMR as Outfall TX1.
- (*23) Given test method or other, as approved at 40 CFR part 136.
- (*24) PPG shall use the furthest downstream alternate sampling location that is outside the influence of the remediation activity. If an alternate sample location was used, the applicable location must be indicated in the comment section of the Discharge Monitoring Report (DMR) for the affected monitoring periods.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

001 PHASE I
PRE-TMDL PARAMETERS, PRE-WATER QUALITY PARAMETERS (NON-TMDL)
MERCURY CELL CLOSURE IN TRANSITION
(USE IN CONJUNCTION WITH OUTFALL 301 AND PHASE I OF INTERNAL OUTFALLS 101 & 201)
FOR USE UPON OUTFALL RELOCATION TO THE CALCASIEU RIVER

During the period beginning upon the startup of Outfall 001 after the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River (*1) prior to June 12, 2008 and lasting until the June 12, 2008 move into Outfall 001 Phase II (*2) the permittee is authorized to discharge from:

Outfall 001, the continuous discharge of process wastewater from Plant A brine treatment system; once-through non-contact cooling water; cooling tower blowdown; pH control reagents; treated sanitary wastewater; non-process wastewater including blowdown from incoming water purification system, boiler blowdown, and deionization unit regeneration water; effluent from neighboring industries Certain-Teed Products Corporation(*3) and Praxair Inc.; stormwater sources including low contamination potential stormwater runoff, post first flush stormwater, and stormwater run-on from offsite; intermittent sources of firewater, deluge system wastewater, hydrostatic testing, freeze protection, condensate piping, discharge from remediation activities, overflow from Sabine settling pond, potential ground water intrusion, and wastewater from treated spent hypochlorite; sulfuric acid stripper water; evaporator area pump seal water; HCL area pump seal water; and discharges from Internal Outfalls 101, 201, and 301 (estimated flow is 172.2773 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		(lbs/day, UNLESS STATED)		Other Units (ug/L, UNLESS STATED)		Measurement Frequency	Sample Type
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*4)
pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes	82581	---	0(*5)	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes	82582	---	446(*5)	---	---	Continuous	Recorder
pH Minimum/Maximum Values (Standard Units)	00400	---	---	Report (Min)	Report (Max)	Continuous	Recorder
Temperature (°F)	00011	---	Report	---	---	Continuous	Recorder
BOD ₅	00310	8689	18579	---	---	3/week	24-hr. Composite
<u>METALS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
Total Nickel	01067	Report	Report	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase I - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	(lbs/day, UNLESS STATED)	(ug/L, UNLESS STATED)					
	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
<u>METALS (TMDL PARAMETERS)(*6)(*8)</u>							
Total Copper	01042	---	Report(*9)	---	---	1/quarter	24-hr. Composite
Total Mercury	71900	---	Report(*9)	---	---	1/quarter	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (NON-TMDL WATER QUALITY PARAMETERS)(*6)(*7)</u>							
Hexachlorobutadiene	34391	0.891904	2.117422	---	---	1/week	24-hr. Composite
Hexachlorobenzene	39700	0.005344	0.012720	---	---	1/week	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*6)(*8)</u>							
Benzo(a)anthracene	34526	---	Report(*9)	---	---	1/quarter	24-hour Composite
Benzo(a)pyrene	34247	---	Report(*9)	---	---	1/quarter	24-hour Composite
<u>VOLATILE COMPOUNDS (RECAP PARAMETERS)(*6)(*10)</u>							
1,1,1,2-Tetrachloroethane	77562	---	Report	---	---	1/year	24-hr. Composite
1,1,2-Trichloroethane	34511	---	Report	---	---	1/year	24-hr. Composite
1,1-Dichloroethene	61162	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethane	32103	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethene	38676	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloropropane	34541	---	Report	---	---	1/year	24-hr. Composite
Benzene	34030	---	Report	---	---	1/year	24-hr. Composite
Bromoform	32104	---	Report	---	---	1/year	24-hr. Composite
1,1,2,2-Tetrachloroethane	34516	---	Report	---	---	1/year	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (RECAP PARAMETERS)(*6)(*10)</u>							
Bis(2-chloroethyl)Ether	34273	---	Report	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	---	Report	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	---	Report	---	---	1/year	24-hr. Composite
Chlorobenzene	34301	---	Report	---	---	1/year	24-hr. Composite
Chloroform	32106	---	Report	---	---	1/year	24-hr. Composite
Cis-1,2- Dichloroethene	03864	---	Report	---	---	1/year	24-hr. Composite
Dichloromethane	03821	---	Report	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	---	Report	---	---	1/year	24-hr. Composite
Naphthalene	34696	---	Report	---	---	1/year	24-hr. Composite
Pentachlorophenol	39032	---	Report	---	---	1/year	24-hr. Composite
Phenol	34694	---	Report	---	---	1/year	24-hr. Composite
Tetrachloroethene	78389	---	Report	---	---	1/year	24-hr. Composite
Thallium, Total	01059	---	Report	---	---	1/year	24-hr. Composite
Trichloroethene	78391	---	Report	---	---	1/year	24-hr. Composite
Vinyl Chloride	39175	---	Report	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase I - Mercury Cell closure in transition)

<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING (*11)</u>	STORET			Monthly Avg	7-Day	Measurement	Sample
	Code(*12)			Minimum	Minimum	Frequency	Type
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TLP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TOP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TPP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TGP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TQP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TLP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic <u>Mysidopsis bahia</u>	TOP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TPP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TGP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TQP3E	---	---	Report	Report	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase I - Mercury Cell closure in transition)

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Flow Location No. 1 - PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1).

Flow Location No. 2 - Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1.

Outfall 001 Sample Point for all parameters except flow (unless noted by footnote below or taken during remediation activities using an alternate location) - at the point of discharge from Mobile Bridge No. 1, prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Sample Points(*13) (For use during remediation activity only)

Alternate Location 1 - at the point of discharge from the sonar platform upstream of the weir on the discharge canal (Latitude 30° 12' 56", Longitude 93° 17' 18"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Location 2 - at the point of discharge from the salvage yard wood bridge (Latitude 30° 13' 11", Longitude 93° 17' 05"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Location 3 - at the point of discharge from pH probe wood platform near the neutralization tanks at Outfall A01 (Latitude 30° 13' 20", Longitude 93° 17' 06"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Location 4 - at the point of discharge from the riverside canal steel platform (Latitude 30° 13' 16", Longitude 93° 16' 53"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 001 for the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall 001 Phase II start up, these limits will be null and void. The applicable schedule will be Outfall 001 Phase II Limits.
- (*3) Effluent from Certain-Teed Products Corporation is covered under LPDES Permit#LA0041025.
- (*4) The daily flow value will be the arithmetic sum of the flow values monitored individually at Flow Location No. 1 [PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1)] and Flow Location No. 2 [Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1] during the same 24-hour sampling period.
- (*5) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*6) See Part II.K.
- (*7) See Compliance Schedule for Non-TMDL Water Quality Parameters at Part II.Q.
- (*8) See TMDL Requirements in Part II.O.
- (*9) The permittee shall conduct monitoring for these pollutants at Internal Outfalls 101 and 201. On the Discharge Monitoring Report (DMR) this shall be reported as a Daily Maximum value to represent the **arithmetic sum of the daily pollutant mass discharges from these outfalls during the same 24-hour sampling period.**
- (*10) RECAP parameters placed into permit per request of the permittee
- (*11) Reporting Outfall will be 001. Results shall be reported on DMR as Outfall TX1.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase I - Mercury Cell closure in transition)

FOOTNOTE(S) CONTINUED:

(*12) Given test method or other, as approved at 40 CFR part 136.

(*13) PPG shall use the furthest downstream alternate sampling location that is outside the influence of the remediation activity. If an alternate sample location was used, the applicable location must be indicated in the comment section of the Discharge Monitoring Report (DMR) for the affected monitoring periods.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

001 PHASE II
POST-TMDL PARAMETERS, PRE-WATER QUALITY PARAMETERS (NON-TMDL)
MERCURY CELL CLOSURE IN TRANSITION
(USE IN CONJUNCTION WITH OUTFALL 301 AND PHASE II OF INTERNAL OUTFALLS 101 & 201)
FOR USE UPON OUTFALL RELOCATION TO THE CALCASIEU RIVER

During the period beginning upon startup of Outfall 001 Phase II, after the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River(*1) beginning on June 13, 2008 and lasting until the startup of Outfall 001 Phase III, three years from the effective date of the permit (*2) the permittee is authorized to discharge from:

Outfall 001, the continuous discharge of process wastewater from Plant A brine treatment system; once-through non-contact cooling water; cooling tower blowdown; pH control reagents; treated sanitary wastewater; non-process wastewater including blowdown from incoming water purification system, boiler blowdown, and deionization unit regeneration water; effluent from neighboring industries Certain-Teed Products Corporation(*3) and Praxair Inc.; stormwater sources including low contamination potential stormwater runoff, post first flush stormwater, and stormwater run-on from offsite; intermittent sources of firewater, deluge system wastewater, hydrostatic testing, freeze protection, condensate piping, discharge from remediation activities, overflow from Sabine settling pond, potential ground water intrusion, and wastewater from treated spent hypochlorite; sulfuric acid stripper water; evaporator area pump seal water; HCL area pump seal water; and discharges from Internal Outfalls 101, 201, and 301 (estimated flow is 172.2773 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)		Measurement Frequency	Sample Type
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*4)
pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes	82581	---	0(*5)	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes	82582	---	446(*5)	---	---	Continuous	Recorder
pH Minimum/Maximum Values (Standard Units)	00400	---	---	Report (Min)	Report (Max)	Continuous	Recorder
Temperature (°F)	00011	---	Report	---	---	Continuous	Recorder
BOD ₅	00310	8689	18579	---	---	3/week	24-hr. Composite
<u>METALS (NON-TMDL WATER QUALITY PARAMETER)(*6)(*7)</u>							
Total Nickel(*)	01067	Report	Report	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase II - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units				Measurement Frequency	Sample Type
		(lbs/day, UNLESS STATED)	Daily Maximum	(ug/L, UNLESS STATED)	Daily Maximum		
METALS (TMDL PARAMETERS)(*6)(*8)							
Total Copper	01042	---	7.09000(*9)	---	---	1/quarter	24-hr. Composite
Total Mercury	71900	---	0.04894(*10)	---	---	1/quarter	24-hr. Composite
BASE NEUTRAL COMPOUNDS (NON-TMDL, WATER QUALITY PARAMETERS)(*6)(*7)							
Hexachlorobutadiene	34391	0.891904	2.117422	---	---	1/week	24-hr. Composite
Hexachlorobenzene	39700	0.005344	0.012720	---	---	1/week	24-hr. Composite
BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*6)(*8)							
Benzo(a)anthracene(*11)	34526	---	0.23750(*12)	---	---	1/quarter	24-hour Composite
Benzo(a)pyrene(*13)	34247	---	0.23750(*14)	---	---	1/quarter	24-hour Composite
VOLATILE COMPOUNDS (RECAP PARAMETERS)(*6)(*15)							
1,1,1,2-Tetrachloroethane	77562	---	Report	---	---	1/year	24-hr. Composite
1,1,2-Trichloroethane	34511	---	Report	---	---	1/year	24-hr. Composite
1,1-Dichloroethene	61162	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethane	32103	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethene	38676	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloropropane	34541	---	Report	---	---	1/year	24-hr. Composite
Benzene	34030	---	Report	---	---	1/year	24-hr. Composite
Bromoform	32104	---	Report	---	---	1/year	24-hr. Composite
1,1,2,2-Tetrachloroethane	34516	---	Report	---	---	1/year	24-hr. Composite
BASE NEUTRAL COMPOUNDS (RECAP PARAMETERS)(*6)(*15)							
Bis(2-chloroethyl)Ether	34273	---	Report	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	---	Report	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	---	Report	---	---	1/year	24-hr. Composite
Chlorobenzene	34301	---	Report	---	---	1/year	24-hr. Composite
Chloroform	32106	---	Report	---	---	1/year	24-hr. Composite
Cis-1,2- Dichloroethene	03864	---	Report	---	---	1/year	24-hr. Composite
Dichloromethane	03821	---	Report	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	---	Report	---	---	1/year	24-hr. Composite
Naphthalene	34696	---	Report	---	---	1/year	24-hr. Composite
Pentachlorophenol	39032	---	Report	---	---	1/year	24-hr. Composite
Phenol	34694	---	Report	---	---	1/year	24-hr. Composite
Tetrachloroethene	78389	---	Report	---	---	1/year	24-hr. Composite
Thallium, Total	01059	---	Report	---	---	1/year	24-hr. Composite
Trichloroethene	78391	---	Report	---	---	1/year	24-hr. Composite
Vinyl Chloride	39175	---	Report	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase II - Mercury Cell closure in transition)

<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING</u> (*16)	STORET Code(*17)			Monthly Avg Minimum	7-Day Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TLP6B ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TOP6B ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TPP6B ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TGP6B ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TQP6B ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TLP3E ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic <u>Mysidopsis bahia</u>	TOP3E ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TPP3E ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TGP3E ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TQP3E ---	---	---	Report	Report	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase II - Mercury Cell closure in transition)

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Flow Location No. 1 - PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1).

Flow Location No. 2 - Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1.

Outfall 001 Sample Point for all parameters except flow (unless noted by footnote below or taken during remediation activities using an alternate location) - at the point of discharge from Mobile Bridge No. 1, prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Sample Points(*18) (For use during remediation activity only)

Alternate Location 1 - at the point of discharge from the sonar platform upstream of the weir on the discharge canal (Latitude 30° 12' 56", Longitude 93° 17" 18"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Location 2 - at the point of discharge from the salvage yard wood bridge (Latitude 30° 13' 11", Longitude 93° 17" 05"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Location 3 - at the point of discharge from pH probe wood platform near the neutralization tanks at Outfall A01 (Latitude 30° 13' 20", Longitude 93° 17" 06"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Location 4 - at the point of discharge from the riverside canal steel platform (Latitude 30° 13' 16", Longitude 93° 16" 53"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 001 for the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall 001 Phase III start up, these limits will be null and void. The applicable schedule will be Outfall 001 Phase III Limits.
- (*3) Effluent from Certain-Teed Products Corporation is covered under LPDES Permit#LA0041025.
- (*4) The daily flow value will be the arithmetic sum of the flow values monitored individually at Flow Location No. 1 [PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1)] and Flow Location No. 2 [Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1] during the same 24-hour sampling period.
- (*5) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*6) See Part II.K.
- (*7) See Compliance Schedule for Non-TMDL Water Quality Parameters at Part II.Q.
- (*8) See TMDL Requirements in Part II.O.
- (*9) The permittee shall conduct Total Copper monitoring at Internal Outfalls 101 and 201. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Copper loading of 7.09000 lbs/day.
- (*10) The permittee shall conduct Total Mercury monitoring at Internal Outfalls 101 and 201. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Mercury loading of 0.04894 lbs/day.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase II - Mercury Cell closure in transition)

FOOTNOTE(S) CONTINUED:

- (*11) As an exception to the MQL located at Part II Paragraph K, the permittee is required to utilize an EPA approved test method with a detection level less than 1.7474 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 1.7474 $\mu\text{g/L}$ for Benzo(a)anthracene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*12) The permittee shall conduct Benzo(a)anthracene monitoring at Internal Outfalls 101 and 201. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Benzo(a)anthracene loading of 0.23750 lbs/day.
- (*13) As an exception to the MQL located at Part II Paragraph K, the permittee is required to utilize an EPA approved test method with a detection level less than 1.7474 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 1.7474 $\mu\text{g/L}$ for Benzo(a)pyrene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*14) The permittee shall conduct Benzo(a)pyrene monitoring at Internal Outfalls 101 and 201. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Benzo(a)pyrene loading of 0.23750 lbs/day.
- (*15) RECAP parameters placed into permit per request of the permittee.
- (*16) Reporting Outfall will be 001. Results shall be reported on DMR as Outfall TX1.
- (*17) Given test method or other, as approved at 40 CFR part 136.
- (*18) PPG shall use the furthest downstream alternate sampling location that is outside the influence of the remediation activity. If an alternate sample location was used, the applicable location must be indicated in the comment section of the Discharge Monitoring Report (DMR) for the affected monitoring periods.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**001 PHASE III
POST-TMDL PARAMETERS, POST-WATER QUALITY PARAMETERS (NON-TMDL)
MERCURY CELL CLOSURE IN TRANSITION
(USE IN CONJUNCTION WITH OUTFALL 301 AND PHASE II OF INTERNAL OUTFALLS 101 & 201)
FOR USE UPON OUTFALL RELOCATION TO THE CALCASIEU RIVER**

During the period beginning after the Outfall 001 relocation from Bayou D'Inde to the Main Stem of the Calcasieu River(*1), three years from the effective date of the permit and lasting through permit expiration the permittee is authorized to discharge from:

Outfall 001, the continuous discharge of process wastewater from Plant A brine treatment system; once-through non-contact cooling water; cooling tower blowdown; pH control reagents; treated sanitary wastewater; non-process wastewater including blowdown from incoming water purification system, boiler blowdown, and deionization unit regeneration water; effluent from neighboring industries Certain-Teed Products Corporation(*2) and Praxair Inc.; stormwater sources including low contamination potential stormwater runoff, post first flush stormwater, and stormwater run-on from offsite; intermittent sources of firewater, deluge system wastewater, hydrostatic testing, freeze protection, condensate piping, discharge from remediation activities, overflow from Sabine settling pond, potential ground water intrusion, and wastewater from treated spent hypochlorite; sulfuric acid stripper water; evaporator area pump seal water; HCL area pump seal water; and discharges from Internal Outfalls 101, 201, and 301 (estimated flow is 172.2773 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*3)
pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes	82581	---	0(*4)	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes	82582	---	446(*4)	---	---	Continuous	Recorder
pH Minimum/Maximum Values (Standard Units)	---	---	Report	Report (Min)	Continuous (Max)	Recorder	
Temperature (°F)	00011	---	Report	---	---	Continuous	Recorder
BOD ₅	00310	8689	18579	---	---	3/week	24-hr. Composite
<u>METALS (NON-TMDL WATER QUALITY PARAMETER)(*5)(*6)</u>							
Total Nickel	01067	22.90243	54.37142	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase III - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	(lbs/day, UNLESS STATED)	(ug/L, UNLESS STATED)					
STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum			
<u>METALS (TMDL PARAMETERS)(*5)(*7)</u>							
Total Copper	01042	---	7.09000(*8)	---	---	1/quarter	24-hr. Composite
Total Mercury	71900	---	0.04894(*9)	---	---	1/quarter	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (NON-TMDL WATER QUALITY PARAMETERS)(*5)(*6)</u>							
Hexachlorobutadiene	34391	0.891904	2.117422	---	---	1/week	24-hr. Composite
Hexachlorobenzene	39700	0.005344	0.012720	---	---	1/week	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*5)(*7)</u>							
Benzo(a)anthracene(*10)	34526	---	0.23750(*11)	---	---	1/quarter	24-hour Composite
Benzo(a)pyrene(*12)	34247	---	0.23750(*13)	---	---	1/quarter	24-hour Composite
<u>VOLATILE COMPOUNDS (RECAP PARAMETERS)(*5)(*14)</u>							
1,1,1,2-Tetrachloroethane	77562	---	Report	---	---	1/year	24-hr. Composite
1,1,2-Trichloroethane	34511	---	Report	---	---	1/year	24-hr. Composite
1,1-Dichloroethene	61162	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethane	32103	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloroethene	38676	---	Report	---	---	1/year	24-hr. Composite
1,2-Dichloropropane	34541	---	Report	---	---	1/year	24-hr. Composite
Benzene	34030	---	Report	---	---	1/year	24-hr. Composite
Bromoform	32104	---	Report	---	---	1/year	24-hr. Composite
1,1,2,2-Tetrachloroethane	34516	---	Report	---	---	1/year	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (RECAP PARAMETERS)(*5)(*14)</u>							
Bis(2-chloroethyl)Ether	34273	---	Report	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	---	Report	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	---	Report	---	---	1/year	24-hr. Composite
Chlorobenzene	34301	---	Report	---	---	1/year	24-hr. Composite
Chloroform	32106	---	Report	---	---	1/year	24-hr. Composite
Cis-1,2- Dichloroethene	03864	---	Report	---	---	1/year	24-hr. Composite
Dichloromethane	03821	---	Report	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	---	Report	---	---	1/year	24-hr. Composite
Naphthalene	34696	---	Report	---	---	1/year	24-hr. Composite
Pentachlorophenol	39032	---	Report	---	---	1/year	24-hr. Composite
Phenol	34694	---	Report	---	---	1/year	24-hr. Composite
Tetrachloroethene	78389	---	Report	---	---	1/year	24-hr. Composite
Thallium, Total	01059	---	Report	---	---	1/year	24-hr. Composite
Trichloroethene	78391	---	Report	---	---	1/year	24-hr. Composite
Vinyl Chloride	39175	---	Report	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase III - Mercury Cell closure in transition)

<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING (*15)</u>	STORET			Monthly Avg	7-Day	Measurement	Sample
	Code(*16)			Minimum	Minimum	Frequency	Type
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TLP6B ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TOP6B ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TPP6B ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TGP6B ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TQP6B ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TLP3E ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic <u>Mysidopsis bahia</u>	TOP3E ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TPP3E ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TGP3E ---	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TQP3E ---	---	---	Report	Report	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase III - Mercury Cell closure in transition)

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Flow Location No. 1 - PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1).

Flow Location No. 2 - Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1.

Outfall 001 Sample Point for all parameters except flow (unless noted by footnote below or taken during remediation activities using an alternate location) - at the point of discharge from Mobile Bridge No. 1, prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Sample Points(*17) (For use during remediation activity only)

Alternate Location 1 - at the point of discharge from the sonar platform upstream of the weir on the discharge canal (Latitude 30° 12' 56", Longitude 93° 17' 18"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Location 2 - at the point of discharge from the salvage yard wood bridge (Latitude 30° 13' 11", Longitude 93° 17' 05"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Location 3 - at the point of discharge from pH probe wood platform near the neutralization tanks at Outfall A01 (Latitude 30° 13' 20", Longitude 93° 17' 06"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

Alternate Location 4 - at the point of discharge from the riverside canal steel platform (Latitude 30° 13' 16", Longitude 93° 16' 53"), prior to combining with any other wastewaters and/or the waters of the Main Stem of the Calcasieu River.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 001 for the relocation from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Effluent from Certain-Teed Products Corporation is covered under LPDES Permit#LA0041025.
- (*3) The daily flow value will be the arithmetic sum of the flow values monitored individually at Flow Location No. 1 [PPG Canal approximately 150 feet upstream of flow retention weir (300 yards upstream from Mobile Bridge No. 1)] and Flow Location No. 2 [Southwest corner of the South Terminal Area. Discharges into the PPG Canal approximately 150 feet upstream of Mobile Bridge No. 1] during the same 24-hour sampling period.
- (*4) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*5) See Part II.K.
- (*6) See Compliance Schedule for Non-TMDL Water Quality Parameters at Part II.Q.
- (*7) See TMDL Requirements in Part II.O.
- (*8) The permittee shall conduct Total Copper monitoring at Internal Outfalls 101 and 201. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Copper loading of 7.09000 lbs/day.
- (*9) The permittee shall conduct Total Mercury monitoring at Internal Outfalls 101 and 201. The flow-weighted combined loading of the outfalls shall not exceed the Daily Maximum Total Mercury loading of 0.04894 lbs/day.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 001 Limitations - Phase III - Mercury Cell closure in transition)

FOOTNOTE(S) CONTINUED:

- (*10) As an exception to the MQL located at Part II Paragraph K, the permittee is required to **utilize** an EPA approved test method with a detection level less than 1.7474 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 1.7474 $\mu\text{g/L}$ for Benzo(a)anthracene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*11) The permittee shall conduct Benzo(a)anthracene monitoring at Internal Outfalls 101 and 201. **The flow-weighted combined loading** of the outfalls shall not exceed the Daily Maximum Benzo(a)anthracene loading of 0.23750 lbs/day.
- (*12) As an exception to the MQL located at Part II Paragraph K, the permittee is required to **utilize** an EPA approved test method with a detection level less than 1.7474 $\mu\text{g/l}$ in order to assure compliance with the TMDL. The permittee can record zero or a less than value on the DMR in the event of any analytical test result that is less than 1.7474 $\mu\text{g/L}$ for Benzo(a)pyrene. Should an EPA approved test method not be available to achieve the stated detection level, then the most sensitive EPA approved method is required, and the permittee can record zero or a less than value on the DMR in the event that the analytical result is less than the detection limit of the most sensitive method.
- (*13) The permittee shall conduct Benzo(a)pyrene monitoring at Internal Outfalls 101 and 201. **The flow-weighted combined loading** of the outfalls shall not exceed the Daily Maximum Benzo(a)pyrene loading of 0.23750 lbs/day.
- (*14) RECAP parameters placed into permit per request of the permittee.
- (*15) Reporting Outfall will be 001. Results shall be reported on DMR as Outfall TX1.
- (*16) Given test method or other, as approved at 40 CFR part 136.
- (*17) PPG shall use the furthest downstream alternate sampling location that is outside the influence of the remediation activity. If an alternate sample location was used, the applicable location must be indicated in the comment section of the Discharge Monitoring Report (DMR) for the affected monitoring periods.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

**10A PHASE I
 PRE-TMDL PARAMETERS
 WHILE THE MERCURY CELL IS IN OPERATION
 (USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A AND PHASE I OF FINAL OUTFALL A01 & INTERNAL OUTFALL 20A)
 BAYOU D'INDE LOCATION**

During the period beginning the effective date and lasting until the June 12, 2008 move into Outfall 10A Phase II; or the startup of Outfall 10B for Mercury Cell Closure Transition (*1)(*2); or the startup of Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River (*1)(*2) the permittee is authorized to discharge from:

Internal Outfall 10A, the continuous discharge of trace contamination process wastewater, treated process wastewater and stormwater from Mercury Cell Chlor/Alkali production facilities including cell room water, seal water, brine treatment solids, and brine purges; process wastewater from the mercury cell process trace including chlorinated condensate, spent sulfuric acid, chlorine seal water, and spent neutralizer caustic and hypochlorite; process wastewater from Diaphragm Cell portion of Plant A including caustic process wastewater, Pels ® Waste Caustic, electrolyzers process wastewater, treated chlorinated condensate, spent sulfuric acid, hydrogen condensate, chlorine header seal water, caustic evaporator condensate, brine purges, barometric condenser purge, cell room wastewater, neutralizer effluent, waste caustic, Pels ® condensate, sulphur chloride scrubber wastewater, sulfate purge water, dissolved salt tank overflow (intermittent), chlorine tank washwater, finished brine tank overflows, start up cell liquor purge, and process area stormwater; treated asbestos bearing process wastewater from Diaphragm Cell Plants A and C; brine solid treatment portion of Plant A; once through non-contact cooling water; and low contamination potential stormwater runoff (estimated flow is 3.0168 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>					<u>Monitoring Requirements</u>	
	(lbs/day, UNLESS STATED)		Other Units (ug/L, UNLESS STATED)			Measurement Frequency	Sample Type
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD(*3)	50050	Report	Report	---	---	Continuous	Recorder(*4)
TSS(*5)	00530	1598	3376	---	---	2/week	24-hr. Composite(*6)
Total Residual Chlorine(*5)	50060	20.4	33.7	---	---	1/week	Grab(*6)
<u>METALS (*7)</u>							
Total Lead(*5)	01051	5.39	13.25	---	---	1/week	24-hr. Composite(*6)
Total Nickel(*5)	01067	8.31	21.79	---	---	1/week	24-hr. Composite(*6)
<u>METALS (TMDL PARAMETERS)(*7)(*10)</u>							
Total Copper(*5)	01042	11.01	26.95	---	---	1/week	24-hr. Composite(*6)
Total Mercury(*8)	71900	0.14	0.33	---	---	1/week	24-hr. Composite(*9)
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*7)(*10)</u>							
Hexachlorobutadiene(*11)	34391	---	Report	---	---	1/week	24-hr. Composite
Hexachlorobenzene(*11)	39700	---	Report	---	---	1/week	24-hr. Composite
<u>PESTICIDES (TMDL PARAMETER)(*7)(*10)</u>							
PCB -1254(*11)	39504	---	Report	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 10A - Phase I - while the Mercury Cell is in operation)

Effluent Characteristic	Discharge Limitations				Monitoring Requirements		
	Other Units				Measurement Frequency	Sample Type	
	(lbs/day, UNLESS STATED)		(ug/L, UNLESS STATED)				
	STORET Code	Monthly Average	Daily Maximum	Monthly Average			Daily Maximum
VOLATILE COMPOUNDS (TMDL PARAMETERS)(*7)(*10)							
1,1,2,2 -Tetrachloroethane(*11)	81549	---	Report	---	---	1/quarter	24-hr. Composite
Bromoform(*11)	32104	---	Report	---	---	1/week	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Sample Location Number 1 - at the main Plant A discharge line located 40 feet ESE of the acid/caustic addition tanks for Final Outfall A01 neutralization on the east side of the PPG Canal approximately 70 feet south of Avenue Q (Latitude 30°13'20", Longitude 93°17'04") and after the commingling of discharges from the asbestos treatment facility, the chlorine rail car and storage hydrostatic test water collection line, the Primary Plant chlor-alkali wastewater collection systems, and from Sample Location Numbers 2 and 3.

Sample Location Number 2 - at the discharge of the trace mercury sewer system located at the SE corner of the mercury cell brine spill sump (swimming pool) about 120 feet SW of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'01") . The sample is to be taken prior to commingling with Sample Location Number 3 discharges.

Sample Location 3 - at the discharge of the mercury cell wastewater treatment facility located at the North West corner of the mercury cell carbon bed filters pad approximately 70 feet South West of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'02"). The sample is to be taken prior to commingling with discharges at Sample Location 2.

Sample Location 4 - at the discharge of the Plant A brine solids treatment facility located approximately 30 feet South West of the Brine Treatment North Clarifier, and approximately 20 feet North West of the Brine Treatment South Accelerator (Latitude 30°13'36", Longitude 93°17'01"). The sample should be taken prior to commingling with any other stream. It should be noted that while Sample Location 4 discharges do commingle with various Plant A non-process wastewater discharges, Sample Location 4 discharges do not commingle with discharges from Sample Locations 1, 2, and 3 prior to discharge into the PPG Canal.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 10B for the Mercury Cell Closure Transition or through Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall 10A Phase II start up, the move to Outfall 10B for the Mercury Cell Closure Transition, or the startup of Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall 10A Phase II Limits, 10B limits, or 101 limits, respectively.
- (*3) The daily flow value will be the arithmetic sum of the flow values monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.
- (*4) The continuous flow monitoring and recording requirements apply individually to Sample Locations 1, 2, 3, and 4.
- (*5) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.
- (*6) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 1 and 4.
- (*7) See Part II.J.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 10A - Phase I - while the Mercury Cell is in operation)

FOOTNOTE(S) CONTINUED:

- (*8) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 2 and 3 during the same 24 - hour sampling period.
- (*9) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 2 and 3.
- (*10) See TMDL Requirements in Part II.N.
- (*11) The pollutant mass discharge shall be monitored at Sample Location 1 only.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

**10A PHASE II
 POST-TMDL PARAMETERS
 WHILE THE MERCURY CELL IS IN OPERATION**

**USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A, PHASE II OF INTERNAL OUTFALL 20A, AND PHASES II AND III OF
 FINAL OUTFALL A01**

BAYOU D'INDE LOCATION

During the period beginning upon startup of Outfall 10A Phase II beginning on June 13, 2008 and lasting until the startup of Outfall 10B for Mercury Cell Closure Transition (*1)(*2); or the startup of Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River(*1)(*2); or permit expiration the permittee is authorized to discharge from:

Internal Outfall 10A, the continuous discharge of trace contamination process wastewater, treated process wastewater and stormwater from Mercury Cell Chlor/Alkali production facilities including cell room water, seal water, brine treatment solids, and brine purges; process wastewater from the mercury cell process trace including chlorinated condensate, spent sulfuric acid, chlorine seal water, and spent neutralizer caustic and hypochlorite; process wastewater from Diaphragm Cell portion of Plant A including caustic process wastewater, Pels ® Waste Caustic, electrolyzers process wastewater, treated chlorinated condensate, spent sulfuric acid, hydrogen condensate, chlorine header seal water, caustic evaporator condensate, brine purges, barometric condenser purge, cell room wastewater, neutralizer effluent, waste caustic, Pels ® condensate, sulphur chloride scrubber wastewater, sulfate purge water, dissolved salt tank overflow (intermittent), chlorine tank washwater, finished brine tank overflows, start up cell liquor purge, and process area stormwater; treated asbestos bearing process wastewater from Diaphragm Cell Plants A and C; brine solid treatment portion of Plant A; once through non-contact cooling water; and low contamination potential stormwater runoff (estimated flow is 3.0168 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>					<u>Monitoring Requirements</u>	
			Other Units				
		(lbs/day, UNLESS STATED)	(ug/L, UNLESS STATED)				
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow-MGD(*3)	50050	Report	Report	---	---	Continuous	Recorder(*4)
TSS(*5)	00530	1598	3376	---	---	2/week	24-hr. Composite(*6)
Total Residual Chlorine(*5)	50060	20.4	33.7	---	---	1/week	Grab(*6)
<u>METALS (*7)</u>							
Total Lead(*5)	01051	5.39	13.25	---	---	1/week	24-hr. Composite(*6)
Total Nickel(*5)	01067	8.31	21.79	---	---	1/week	24-hr. Composite(*6)
<u>METALS (TMDL PARAMETERS)(*7)(*10)</u>							
Total Copper(*5)	01042	---	(*11)	---	---	1/week	24-hr. Composite(*6)
Total Mercury(*8)	71900	---	(*12)	---	---	1/week	24-hr. Composite(*9)
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*7)(*10)</u>							
Hexachlorobutadiene(*13)	34391	---	(*14)	---	---	1/week	24-hr. Composite
Hexachlorobenzene(*13)	39700	---	(*15)	---	---	1/week	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 10A - Phase II - while the Mercury Cell is in operation)

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	Other Units				Measurement Frequency	Sample Type
	(lbs/day, UNLESS STATED)	(ug/L, UNLESS STATED)				
STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
<u>PESTICIDES (TMDL PARAMETER)(*7)(*10)</u>						
PCB -1254(*13)	39504 ---	(*16)	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*7)(*10)</u>						
1,1,2,2 -Tetrachloroethane(*13)	81549 ---	(*17)	---	---	1/quarter	24-hr. Composite
Bromoform(*13)	32104 ---	(*18)	---	---	1/week	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Sample Location Number 1 - at the main Plant A discharge line located 40 feet ESE of the acid/caustic addition tanks for Final Outfall A01 neutralization on the east side of the PPG Canal approximately 70 feet south of Avenue Q (Latitude 30°13'20", Longitude 93°17'04") and after the commingling of discharges from the asbestos treatment facility, the chlorine rail car and storage hydrostatic test water collection line, the Primary Plant chlor-alkali wastewater collection systems, and from Sample Location Numbers 2 and 3.

Sample Location Number 2 - at the discharge of the trace mercury sewer system located at the SE corner of the mercury cell brine spill sump (swimming pool) about 120 feet SW of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'01") . The sample is to be taken prior to commingling with Sample Location Number 3 discharges.

Sample Location 3 - at the discharge of the mercury cell wastewater treatment facility located at the North West corner of the mercury cell carbon bed filters pad approximately 70 feet South West of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'02"). The sample is to be taken prior to commingling with discharges at Sample Location 2.

Sample Location 4 - at the discharge of the Plant A brine solids treatment facility located approximately 30 feet South West of the Brine Treatment North Clarifier, and approximately 20 feet North West of the Brine Treatment South Accelerator (Latitude 30°13'36", Longitude 93°17'01"). The sample should be taken prior to commingling with any other stream. It should be noted that while Sample Location 4 discharges do commingle with various Plant A non-process wastewater discharges, Sample Location 4 discharges do not commingle with discharges from Sample Locations 1, 2, and 3 prior to discharge into the PPG Canal.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 10B for the Mercury Cell Closure Transition or through Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon the move to Outfall 10B for the Mercury Cell Closure Transition, or the startup of Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall 10B Phase II Limits, or 101 limits, respectively.
- (*3) The daily flow value will be the arithmetic sum of the flow values monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.
- (*4) The continuous flow monitoring and recording requirements apply individually to Sample Locations 1, 2, 3, and 4.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 10A - Phase II - while the Mercury Cell is in operation)

FOOTNOTE(S) CONTINUED:

- (*5) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.
- (*6) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 1 and 4.
- (*7) See Part II.J.
- (*8) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 2 and 3 during the same 24 - hour sampling period.
- (*9) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 2 and 3.
- (*10) See TMDL Requirements in Part II.N.
- (*11) See Total Copper limitation listed in Part I, Pages 8 and 14 of 90 and Footnotes (*9) and (*10) on Pages 11 and 17 of 90.
- (*12) See Total Mercury limitation listed in Part I, Pages 8 and 14 of 90 and Footnotes (*11) and (*12) on Pages 11 and 17 of 90.
- (*13) The pollutant mass discharge shall be monitored at Sample Location 1 only.
- (*14) See Hexachlorobutadiene limitation listed in Part I, Pages 8 and 14 of 90 and Footnotes (*15) and (*16) on Pages 11 and 17 of 90.
- (*15) See Hexachlorobenzene limitation listed in Part I, Pages 8 and 14 of 90 and Footnotes (*17) and (*18) on Pages 11, 12, 17, and 18 of 90.
- (*16) See PCB-1254 limitation listed in Part I, Pages 8 and 14 of 90 and Footnotes (*13) and (*14) on Page 11 and 17 of 90.
- (*17) See 1,1,2,2 - Tetrachloro-ethane limitation listed in Part I, Pages 8 and 14 of 90 and Footnote (*20) on Page 12 and 18 of 90.
- (*18) See Bromoform limitation listed in Part I, Pages 8 and 14 of 90 and Footnote (*19) on Page 12 and 18 of 90.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

**10B PHASE I
PRE-TMDL PARAMETERS
MERCURY CELL CLOSURE IN TRANSITION
(USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A AND PHASE I OF FINAL OUTFALL B01 & INTERNAL OUTFALL 20A)
BAYOU D'INDE LOCATION**

During the period beginning upon the startup of Outfall 10B for Mercury Cell Closure Transition (*1)(*2) prior to June 12, 2008 and lasting until The June 12, 2008 move into Outfall 10B Phase II; or the startup of Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River(*1)(*2) the permittee is authorized to discharge from:

Internal Outfall 10B, the continuous discharge of wastewater from the decommissioning of the Mercury Cell and associated activities; process wastewater from Membrane Cell portion of Plant A including HCL tank vent scrubber effluent, acid and soda ash storage areas process wastewater, and wastewater from the sulfuric acid stripper, membrane cell room floor drains, and pump seal water from evaporator or HCL area; process wastewater from Diaphragm Cell portion of Plant A including caustic process wastewater, Pels ® Waste Caustic, electrolyzers process wastewater, treated chlorinated condensate, spent sulfuric acid, hydrogen condensate, chlorine header seal water, caustic evaporator condensate, brine purges, barometric condenser purge, cell room wastewater, neutralizer effluent, waste caustic, Pels ® condensate, sulphur chloride scrubber wastewater, sulfate purge water, dissolved salt tank overflow (intermittent), chlorine tank washwater, finished brine tank overflows, start up cell liquor purge, and process area stormwater; treated asbestos bearing process wastewater from Diaphragm Cell Plants A and C; process wastewater from brine solid treatment portion of Plant A; once through non-contact cooling water from Diaphragm Cells; and low contamination potential stormwater runoff (estimated flow is 3.1176 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>STORET Code</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
<u>CONVENTIONAL AND NONCONVENTIONAL</u>		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD(*3)	50050	Report	Report	---	---	Continuous	Recorder(*4)
TSS(*5)	00530	1983	4277	---	---	2/week	24-hr. Composite(*6)
Total Residual Chlorine(*5)	50060	30.7	50.5	---	---	1/week	Grab(*6)
<u>METALS (*7)</u>							
Total Lead(*5)	01051	9.33	22.94	---	---	1/week	24-hr. Composite(*6)
Total Nickel(*5)	01067	14.39	37.71	---	---	1/week	24-hr. Composite(*6)
<u>METALS (TMDL PARAMETERS)(*7)(*10)</u>							
Total Copper (*5)	01042	19.05	46.66	---	---	1/week	24-hr. Composite(*6)
Total Mercury (*8)	71900	0.14	0.33	---	---	1/week	24-hr. Composite(*9)
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*7)(*10)</u>							
Hexachlorobutadiene(*11)	34391	---	Report	---	---	1/week	24-hr. Composite
Hexachlorobenzene(*11)	39700	---	Report	---	---	1/week	24-hr. Composite
<u>PESTICIDES (TMDL PARAMETER)(*7)(*10)</u>							
PCB -1254(*11)	39504	---	Report	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 10B - Phase I - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)						
	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*7)(*10)</u>							
1,1,2,2 -Tetrachloroethane(*11) 81549	---	Report	---	---	1/quarter	24-hr. Composite	
Bromoform(*11) 32104	---	Report	---	---	1/week	24-hr. Composite	

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Sample Location Number 1 - at the main Plant A discharge line located 40 feet ESE of the acid/caustic addition tanks for Final Outfall B01 neutralization on the east side of the PPG Canal approximately 70 feet south of Avenue Q (Latitude 30°13'20", Longitude 93°17'04") and after the commingling of discharges from the asbestos treatment facility, the chlorine rail car and storage hydrostatic test water collection line, the Primary Plant chlor-alkali wastewater collection systems, and from Sample Location Numbers 2 and 3.

Sample Location Number 2 - at the discharge of the trace mercury sewer system located at the SE corner of the mercury cell brine spill sump (swimming pool) about 120 feet SW of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'01") . The sample is to be taken prior to commingling with Sample Location Number 3 discharges.

Sample Location 3 - at the discharge of the mercury cell wastewater treatment facility located at the North West corner of the mercury cell carbon bed filters pad approximately 70 feet South West of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'02"). The sample is to be taken prior to commingling with discharges at Sample Location 2.

Sample Location 4 - at the discharge of the Plant A brine solids treatment facility located approximately 30 feet South West of the Brine Treatment North Clarifier, and approximately 20 feet North West of the Brine Treatment South Accelerator (Latitude 30°13'36", Longitude 93°17'01"). The sample should be taken prior to commingling with any other stream. It should be noted that while Sample Location 4 discharges do commingle with various Plant A non-process wastewater discharges, Sample Location 4 discharges do not commingle with discharges from Sample Locations 1, 2, and 3 prior to discharge into the PPG Canal.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall 10B Phase II start up, or the startup of Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall 10B Phase II Limits or 101 limits, respectively.
- (*3) The daily flow value will be the arithmetic sum of the flow values monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.
- (*4) The continuous flow monitoring and recording requirements apply individually to Sample Locations 1, 2, 3, and 4.
- (*5) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.
- (*6) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 1 and 4.
- (*7) See Part II.J.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 10B - Phase I - Mercury Cell closure in transition)

FOOTNOTE(S) CONTINUED:

- (*8) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 2 and 3 during the same 24 - hour sampling period.
- (*9) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 2 and 3.
- (*10) See TMDL Requirements in Part II.N.
- (*11) The pollutant mass discharge shall be monitored at Sample Location 1 only.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

**10B PHASE II
POST-TMDL PARAMETERS
MERCURY CELL CLOSURE IN TRANSITION**

**USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A, PHASE II OF INTERNAL OUTFALL 20A, AND PHASES II AND III OF
FINAL OUTFALL B01**

BAYOU D'INDE LOCATION

During the period beginning upon the startup of Outfall 10B Phase II beginning on June 13, 2008 and lasting until the startup of Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River(*1)(*2); or permit expiration the permittee is authorized to discharge from:

Internal Outfall 10B, the continuous discharge of wastewater from the decommissioning of the Mercury Cell and associated activities; process wastewater from Membrane Cell portion of Plant A including HCL tank vent scrubber effluent, acid and soda ash storage areas process wastewater, and wastewater from the sulfuric acid stripper, membrane cell room floor drains, and pump seal water from evaporator or HCL area; process wastewater from Diaphragm Cell portion of Plant A including caustic process wastewater, Pels ® Waste Caustic, electrolyzers process wastewater, treated chlorinated condensate, spent sulfuric acid, hydrogen condensate, chlorine header seal water, caustic evaporator condensate, brine purges, barometric condenser purge, cell room wastewater, neutralizer effluent, waste caustic, Pels ® condensate, sulphur chloride scrubber wastewater, sulfate purge water, dissolved salt tank overflow (intermittent), chlorine tank washwater, finished brine tank overflows, start up cell liquor purge, and process area stormwater; treated asbestos bearing process wastewater from Diaphragm Cell Plants A and C; process wastewater from brine solid treatment portion of Plant A; once through non-contact cooling water from Diaphragm Cells; and low contamination potential stormwater runoff (estimated flow is 3.1176 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				<u>Measurement Frequency</u>	<u>Sample Type</u>
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	<u>STORET Code</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>		
Flow-MGD(*3)	50050	Report	Report	---	---	Continuous	Recorder(*4)
TSS(*5)	00530	1983	4277	---	---	2/week	24-hr. Composite(*6)
Total Residual Chlorine(*5)	50060	30.7	50.5	---	---	1/week	Grab(*6)
<u>METALS (*7)</u>							
Total Lead(*5)	01051	9.33	22.94	---	---	1/week	24-hr. Composite(*6)
Total Nickel(*5)	01067	14.39	37.71	---	---	1/week	24-hr. Composite(*6)
<u>METALS (TMDL PARAMETERS)(*7)(*10)</u>							
Total Copper(*5)	01042	---	(*11)	---	---	1/week	24-hr. Composite(*6)
Total Mercury(*8)	71900	---	(*12)	---	---	1/week	24-hr. Composite(*9)
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*7)(*10)</u>							
Hexachlorobutadiene(*13)	34391	---	(*14)	---	---	1/week	24-hr. Composite
Hexachlorobenzene(*13)	39700	---	(*15)	---	---	1/week	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 10B - Phase II - Mercury Cell closure in transition)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
<u>PESTICIDES (TMDL PARAMETER)(*7)(*10)</u>							
PCB -1254(*13)	39504	---	(*16)	---	---	1/quarter	24-hr. Composite
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*7)(*10)</u>							
1,1,2,2 -Tetrachloroethane(*13)	81549	---	(*17)	---	---	1/quarter	24-hr. Composite
Bromoform(*13)	32104	---	(*18)	---	---	1/week	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Sample Location Number 1 - at the main Plant A discharge line located 40 feet ESE of the acid/caustic addition tanks for Final Outfall B01 neutralization on the east side of the PPG Canal approximately 70 feet south of Avenue Q (Latitude 30°13'20", Longitude 93°17'04") and after the commingling of discharges from the asbestos treatment facility, the chlorine rail car and storage hydrostatic test water collection line, the Primary Plant chlor-alkali wastewater collection systems, and from Sample Location Numbers 2 and 3.

Sample Location Number 2 - at the discharge of the trace mercury sewer system located at the SE corner of the mercury cell brine spill sump (swimming pool) about 120 feet SW of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'01") . The sample is to be taken prior to commingling with Sample Location Number 3 discharges.

Sample Location 3 - at the discharge of the mercury cell wastewater treatment facility located at the North West corner of the mercury cell carbon bed filters pad approximately 70 feet South West of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'02"). The sample is to be taken prior to commingling with discharges at Sample Location 2.

Sample Location 4 - at the discharge of the Plant A brine solids treatment facility located approximately 30 feet South West of the Brine Treatment North Clarifier, and approximately 20 feet North West of the Brine Treatment South Accelerator (Latitude 30°13'36", Longitude 93°17'01"). The sample should be taken prior to commingling with any other stream. It should be noted that while Sample Location 4 discharges do commingle with various Plant A non-process wastewater discharges, Sample Location 4 discharges do not commingle with discharges from Sample Locations 1, 2, and 3 prior to discharge into the PPG Canal.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 10B for the Mercury Cell Closure Transition or through Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon the startup of Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall 101 limits (Phase I and/or II).
- (*3) The daily flow value will be the arithmetic sum of the flow values monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.
- (*4) The continuous flow monitoring and recording requirements apply individually to Sample Locations 1, 2, 3, and 4.
- (*5) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 10B - Phase II - Mercury Cell closure in transition)

FOOTNOTE(S) CONTINUED:

- (*6) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 1 and 4.
- (*7) See Part II.J.
- (*8) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 2 and 3 during the same 24 - hour sampling period.
- (*9) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 2 and 3.
- (*10) See TMDL Requirements in Part II.N.
- (*11) See Total Copper limitation listed in Part I, Pages 25 and 31 of 90, Footnotes (*9) and (*10) on Page 28 and 34 of 90.
- (*12) See Total Mercury limitation listed in Part I, Pages 25 and 31 of 90 and Footnotes (*11) and (*12) on Pages 28 and 34 of 90.
- (*13) The pollutant mass discharge shall be monitored at Sample Location 1 only.
- (*14) See Hexachlorobutadiene limitation listed in Part I, Pages 25 and 31 of 90 and Footnotes (*15) and (*16) on Pages 28 and 34 of 90.
- (*15) See Hexachlorobenzene limitation listed in Part I, Pages 25 and 31 of 90 and Footnotes (*17) and (*18) on Pages 28 and 34 of 90.
- (*16) See PCB-1254 limitation listed in Part I, Pages 25 and 31 of 90 and Footnotes (*13) and (*14) on Pages 28 and 34 of 90.
- (*17) See 1,1,2,2 - Tetrachloro-ethane limitation listed in Part I, Pages 25 and 31 of 90 and Footnote (*20) on Pages 29 and 35 of 90.
- (*18) See Bromoform limitation listed in Part I, Pages 25 and 31 of 90 and Footnote (*19) on Pages 28 and 34 of 90.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

**101 PHASE I
PRE-TMDL PARAMETERS
MERCURY CELL CLOSURE IN TRANSITION
(USE IN CONJUNCTION WITH INTERNAL OUTFALL 301, PHASE I OF FINAL OUTFALL 001, AND INTERNAL OUTFALL 201)
RELOCATION TO THE CALCASIEU RIVER**

During the period beginning upon the startup of Outfall 101 for the Mercury Cell Closure Transition after the Outfall 001 relocation from Bayou D'Inde to the Main Stem of the Calcasieu is River complete (*1)(*2), prior to June 12, 2008 and lasting until the June 12, 2008 move into Outfall 101 Phase II the permittee is authorized to discharge from:

Internal Outfall 101, the continuous discharge of wastewater from the decommissioning of the Mercury Cell and associated activities; process wastewater from Membrane Cell portion of Plant A including HCL tank vent scrubber effluent, acid and soda ash storage areas process wastewater, and wastewater from the sulfuric acid stripper, membrane cell room floor drains, and pump seal water from evaporator or HCL area; process wastewater from Diaphragm Cell portion of Plant A including caustic process wastewater, Pels ® Waste Caustic, electrolyzers process wastewater, treated chlorinated condensate, spent sulfuric acid, hydrogen condensate, chlorine header seal water, caustic evaporator condensate, brine purges, barometric condenser purge, cell room wastewater, neutralizer effluent, waste caustic, Pels ® condensate, sulphur chloride scrubber wastewater, sulfate purge water, dissolved salt tank overflow (intermittent), chlorine tank washwater, finished brine tank overflows, start up cell liquor purge, and process area stormwater; treated asbestos bearing process wastewater from Diaphragm Cell Plants A and C; process wastewater from brine solid treatment portion of Plant A; once through non-contact cooling water from Diaphragm Cells; and low contamination potential stormwater runoff (estimated flow is 3.1176 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				<u>Measurement Frequency</u>	<u>Sample Type</u>
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	<u>STORET Code</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>		
Flow-MGD(*3)	50050	Report	Report	---	---	Continuous	Recorder(*4)
TSS(*5)	00530	1983	4277	---	---	2/week	24-hr. Composite(*6)
Total Residual Chlorine(*5)	50060	30.7	50.5	---	---	1/week	Grab(*6)
<u>METALS (*7)</u>							
Total Lead(*5)	01051	9.33	22.94	---	---	1/week	24-hr. Composite(*6)
Total Nickel(*5)	01067	14.39	37.71	---	---	1/week	24-hr. Composite(*6)
<u>METALS (TMDL PARAMETERS)(*7)(*10)</u>							
Total Copper (*5)	01042	19.05	46.66	---	---	1/week	24-hr. Composite(*6)
Total Mercury (*8)	71900	0.14	0.33	---	---	1/week	24-hr. Composite(*9)
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*7)(*10)</u>							
Benzo(a)anthracene(*11)	34526	---	Report	---	---	1/quarter	24-hr. Composite
Benzo(a)pyrene(*11)	34247	---	Report	---	---	1/quarter	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 101 - Phase I - **Mercury** Cell closure in transition)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Sample Location Number 1 - at the main Plant A discharge line located 40 feet ESE of the acid/caustic addition tanks for Final Outfall 001 neutralization on the east side of the PPG Canal approximately 70 feet south of Avenue Q (Latitude 30°13'20", Longitude 93°17'04") and after the commingling of discharges from the asbestos treatment facility, the chlorine rail car and storage hydrostatic test water collection line, the Primary Plant chlor-alkali wastewater collection systems, and from Sample Location Numbers 2 and 3.

Sample Location Number 2 - at the discharge of the trace mercury sewer system located at the SE corner of the mercury cell brine spill sump (swimming pool) about 120 feet SW of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'01") . The sample is to be taken prior to commingling with Sample Location Number 3 discharges.

Sample Location 3 - at the discharge of the mercury cell wastewater treatment facility located at the North West corner of the mercury cell carbon bed filters pad approximately 70 feet South West of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'02"). The sample is to be taken prior to commingling with discharges at Sample Location 2.

Sample Location 4 - at the discharge of the Plant A brine solids treatment facility located approximately 30 feet South West of the Brine Treatment North Clarifier, and approximately 20 feet North West of the Brine Treatment South Accelerator (Latitude 30°13'36", Longitude 93°17'01"). The sample should be taken prior to commingling with any other stream. It should be noted that while Sample Location 4 discharges do commingle with various Plant A non-process wastewater discharges, Sample Location 4 discharges do not commingle with discharges from Sample Locations 1, 2, and 3 prior to discharge into the PPG Canal.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall 101 Phase II start up, these limits will be null and void. Applicable schedule will be Outfall 101 Phase II Limits.
- (*3) The daily flow value will be the arithmetic sum of the flow values monitored individually at sample locations 1 and 4 during the same 24 - hour sampling period.
- (*4) The continuous flow monitoring and recording requirements apply individually to Sample Locations 1, 2, 3, and 4.
- (*5) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.
- (*6) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 1 and 4.
- (*7) See Part II.K.
- (*8) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 2 and 3 during the same 24 - hour sampling period.
- (*9) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 2 and 3.
- (*10) See TMDL Requirements in Part II.O.
- (*11) The pollutant mass discharge shall be monitored at Sample Location 1 only.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

**101 PHASE II
POST-TMDL PARAMETERS
MERCURY CELL CLOSURE IN TRANSITION**

**USE IN CONJUNCTION WITH INTERNAL OUTFALL 301, PHASE II OF INTERNAL OUTFALL 201, AND PHASES II AND III OF
FINAL OUTFALL 001**

RELOCATION TO THE CALCASIEU RIVER

During the period beginning upon the startup of Outfall 101 Phase II for the Mercury Cell Closure Transition after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River (*1), beginning on June 13, 2008, and lasting until permit expiration the permittee is authorized to discharge from:

Internal Outfall 101, the continuous discharge of wastewater from the decommissioning of the Mercury Cell and associated activities; process wastewater from Membrane Cell portion of Plant A including HCL tank vent scrubber effluent, acid and soda ash storage areas process wastewater, and wastewater from the sulfuric acid stripper, membrane cell room floor drains, and pump seal water from evaporator or HCL area; process wastewater from Diaphragm Cell portion of Plant A including caustic process wastewater, Pels ® Waste Caustic, electrolyzers process wastewater, treated chlorinated condensate, spent sulfuric acid, hydrogen condensate, chlorine header seal water, caustic evaporator condensate, brine purges, barometric condenser purge, cell room wastewater, neutralizer effluent, waste caustic, Pels ® condensate, sulphur chloride scrubber wastewater, sulfate purge water, dissolved salt tank overflow (intermittent), chlorine tank washwater, finished brine tank overflows, start up cell liquor purge, and process area stormwater; treated asbestos bearing process wastewater from Diaphragm Cell Plants A and C; process wastewater from brine solid treatment portion of Plant A; once through non-contact cooling water from Diaphragm Cells; and low contamination potential stormwater runoff (estimated flow is 3.1176 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units				Measurement Frequency	Sample Type
		(lbs/day, UNLESS STATED)	(ug/L, UNLESS STATED)				
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD(*2)	50050	Report	Report	---	---	Continuous	Recorder(*3)
TSS(*4)	00530	1983	4277	---	---	2/week	24-hr. Composite(*5)
Total Residual Chlorine(*4)	50060	30.7	50.5	---	---	1/week	Grab(*5)
<u>METALS (*6)</u>							
Total Lead(*4)	01051	9.33	22.94	---	---	1/week	24-hr. Composite(*5)
Total Nickel(*4)	01067	14.39	37.71	---	---	1/week	24-hr. Composite(*5)
<u>METALS (TMDL PARAMETERS)(*6)(*9)</u>							
Total Copper (*4)	01042	---	(*10)	---	---	1/week	24-hr. Composite(*5)
Total Mercury (*7)	71900	---	(*11)	---	---	1/week	24-hr. Composite(*8)
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*6)(*9)</u>							
Benzo(a)anthracene(*12)	34526	---	(*13)	---	---	1/quarter	24-hr. Composite
Benzo(a)pyrene(*12)	34247	---	(*14)	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 101 - Phase II - Mercury Cell closure in transition)

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Sample Location Number 1 - at the main Plant A discharge line located 40 feet ESE of the acid/caustic addition tanks for Final Outfall 001 neutralization on the east side of the PPG Canal approximately 70 feet south of Avenue Q (Latitude 30°13'20", Longitude 93°17'04") and after the commingling of discharges from the asbestos treatment facility, the chlorine rail car and storage hydrostatic test water collection line, the Primary Plant chlor-alkali wastewater collection systems, and from Sample Location Numbers 2 and 3.

Sample Location Number 2 - at the discharge of the trace mercury sewer system located at the SE corner of the mercury cell brine spill sump (swimming pool) about 120 feet SW of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'01") . The sample is to be taken prior to commingling with Sample Location Number 3 discharges.

Sample Location 3 - at the discharge of the mercury cell wastewater treatment facility located at the North West corner of the mercury cell carbon bed filters pad approximately 70 feet South West of the corner of 8th Street and Avenue M (Latitude 30°13'26", Longitude 93°17'02"). The sample is to be taken prior to commingling with discharges at Sample Location 2.

Sample Location 4 - at the discharge of the Plant A brine solids treatment facility located approximately 30 feet South West of the Brine Treatment North Clarifier, and approximately 20 feet North West of the Brine Treatment South Accelerator (Latitude 30°13'36", Longitude 93°17'01"). The sample should be taken prior to commingling with any other stream. It should be noted that while Sample Location 4 discharges do commingle with various Plant A non-process wastewater discharges, Sample Location 4 discharges do not commingle with discharges from Sample Locations 1, 2, and 3 prior to discharge into the PPG Canal.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 101 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) The daily flow value will be the arithmetic sum of the flow values monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.
- (*3) The continuous flow monitoring and recording requirements apply individually to Sample Locations 1, 2, 3, and 4.
- (*4) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 1 and 4 during the same 24 - hour sampling period.
- (*5) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 1 and 4.
- (*6) See Part II.K.
- (*7) The daily pollutant mass discharge is defined as the arithmetic sum of the pollutant mass discharges monitored individually at Sample Locations 2 and 3 during the same 24 - hour sampling period.
- (*8) The 24-hour composite sample type or grab sample type, if specified, applies individually to Sample Locations 2 and 3.
- (*9) See TMDL Requirements in Part II.O.
- (*10) See Total Copper limitation listed in Part I, Pages 42 and 47 of 90 and Footnote (*9) Page 44 of 90 and Footnote (*8) Page 49 of 90.
- (*11) See Total Mercury limitation listed in Part I, Pages 42 and 47 of 90 and Footnote (*10) Page 44 of 90 and Footnote (*9) Page 49 of 90.
- (*12) The pollutant mass discharge shall be monitored at Sample Location 1 only.
- (*13) See Benzo(a)anthracene limitation listed in Part I, Pages 42 and 47 of 90 and Footnotes (*11) and (*12) Page 45 of 90 and Footnotes (*10) and (*11) Page 50 of 90.
- (*14) See Benzo(a)pyrene limitation listed in Part I, Pages 42 and 47 of 90 and Footnotes (*13) and (*14) Page 45 of 90 and Footnotes (*12) and (*13) Page 50 of 90.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

**20A PHASE I
PRE-TMDL PARAMETERS
(USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A & PHASE I OF FINAL OUTFALL A01 & INTERNAL OUTFALL 10A)
BAYOU D'INDE LOCATION**

During the period beginning the effective date and lasting until the June 12, 2008 move into Outfall 20A Phase II; or the startup of the Outfall 201 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River (*1)(*2) the permittee is authorized to discharge from:

Internal Outfall 20A, the discharge of process wastewater and process area stormwater from the Silica manufacturing process; wet scrubber wastewater; Plant C process wastewater; non-process wastewater including groundwater intrusion water, deionization unit regeneration discharge, boiler blowdown, and steam condensate; Plant C caustic sulfate purge water; scrubbing water from process waste incinerator units; chlorinated condensate from Plant C; chlorinated condensate from Plant A electrolyzers; dissolved brine treatment solids from Plant C; low contamination potential stormwater; Plant B OCPSF process wastewater and process area stormwater; and recovered groundwater from Complex wells. (estimated flow is 14.6808 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*3)
TSS(*4)	00530	4678	13821	---	---	2/week	24-hr. Composite
Total Residual Chlorine(*4)	50060	28.8	47.3	---	---	1/week	Grab
<u>METALS(*4)(*5)</u>							
Total Lead	01051	12.35	29.28	---	---	1/week	24-hr. Composite
Total Nickel	01067	32.55	80.26	---	---	1/week	24-hr. Composite
Total Zinc	01092	27.37	36.53	---	---	1/week	24-hr. Composite
<u>METALS (TMDL PARAMETERS)(*4)(*5)(*6)</u>							
Total Copper	01042	34.21	81.86	---	---	1/week	24-hr. Composite
Total Mercury	71900	---	Report	---	---	1/week	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*5)(*6)(*7)</u>							
Hexachlorobenzene	39700	3.04	12.30	---	---	1/week	24-hr. Composite
Hexachlorobutadiene	34391	2.20	5.89	---	---	1/week	24-hr. Composite
<u>PESTICIDES (TMDL PARAMETER)(*5)(*6)(*7)</u>							
PCB -1254	39504	---	Report	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 20A - Phase I - Bayou D'Inde Location)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	(lbs/day, UNLESS STATED)	(ug/L, UNLESS STATED)					
STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum			
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*5)(*6)(*7)</u>							
1,1,2,2 -Tetrachloroethane	81549	---	Report	---	---	1/quarter	24-hr. Composite
Bromoform	32104	---	Report	---	---	1/week	24-hr. Composite
<u>VOLATILE COMPOUNDS(*5)(*7)</u>							
Acrylonitrile	34215	1.46	3.59	---	---	1/year	24-hr. Composite
Benzene	34030	0.88	2.08	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	2.20	5.89	---	---	1/week	24-hr. Composite
Chlorobenzene	34301	2.20	5.89	---	---	1/year	24-hr. Composite
Chloroethane	34311	1.70	4.57	---	---	1/week	24-hr. Composite
Chloroform	32106	1.72	5.04	---	---	1/week	24-hr. Composite
1,1-Dichloroethane	34496	0.34	0.91	---	---	1/week	24-hr. Composite
1,2-Dichloroethane	34531	2.79	8.89	---	---	1/week	24-hr. Composite
1,1-Dichloroethylene	34501	0.34	0.93	---	---	1/week	24-hr. Composite
1,2-trans-Dichloroethylene	34546	0.39	1.02	---	---	1/week	24-hr. Composite
1,2-Dichloropropane	34541	3.04	12.30	---	---	1/year	24-hr. Composite
1,3-Dichloropropylene	51044	3.04	12.30	---	---	1/year	24-hr. Composite
Ethylbenzene	34371	2.20	5.89	---	---	1/year	24-hr. Composite
Methyl Chloride	34418	1.70	4.57	---	---	1/year	24-hr. Composite
Methylene Chloride	34423	0.56	2.63	---	---	1/week	24-hr. Composite
Tetrachloroethylene	34475	0.81	2.54	---	---	1/week	24-hr. Composite
Toluene	34010	0.43	1.15	---	---	1/year	24-hr. Composite
1,1,1-Trichloroethane	34506	0.34	0.91	---	---	1/week	24-hr. Composite
1,1,2-Trichloroethane	34511	0.50	1.97	---	---	1/week	24-hr. Composite
Trichloroethylene	39180	0.40	1.07	---	---	1/week	24-hr. Composite
Vinyl Chloride	39175	1.50	2.66	---	---	1/week	24-hr. Composite
<u>ACID COMPOUNDS(*5)(*7)</u>							
2,4-Dimethylphenol	34606	0.29	0.73	---	---	1/year	24-hr. Composite
4,6-Dinitro-o-Cresol	34657	1.21	4.29	---	---	1/year	24-hr. Composite
2,4-Dinitrophenol	34616	18.70	66.48	---	---	1/year	24-hr. Composite
2-Nitrophenol	34591	1.01	3.58	---	---	1/year	24-hr. Composite
4-Nitrophenol	34646	2.51	8.92	---	---	1/year	24-hr. Composite
Phenol	34694	0.80	1.22	---	---	1/week	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 20A - Phase I - Bayou D'Inde Location)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
BASE NEUTRAL COMPOUNDS(*5)(*7)							
Acenaphthene	34205	0.29	0.73	---	---	1/year	24-hr. Composite
Acenaphthylene	34200	0.29	0.73	---	---	1/year	24-hr. Composite
Anthracene	34220	0.29	0.73	---	---	1/year	24-hr. Composite
Benzo(a)anthracene	34526	0.29	0.73	---	---	1/year	24-hr. Composite
Benzo(a)pyrene	34247	0.31	0.74	---	---	1/year	24-hr. Composite
3,4-Benzofluoranthene	34230	0.31	0.74	---	---	1/year	24-hr. Composite
Benzo(k)fluoranthene	34242	0.29	0.73	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	1.47	4.00	---	---	1/year	24-hr. Composite
Chrysene	34320	0.29	0.73	---	---	1/year	24-hr. Composite
1,2-Dichlorobenzene	34536	3.04	12.30	---	---	1/year	24-hr. Composite
1,3-Dichlorobenzene	34566	2.20	5.89	---	---	1/year	24-hr. Composite
1,4-Dichlorobenzene	34571	2.20	5.89	---	---	1/year	24-hr. Composite
Diethyl phthalate	34336	0.71	1.75	---	---	1/year	24-hr. Composite
Dimethyl phthalate	34341	0.29	0.73	---	---	1/year	24-hr. Composite
Di-n-butyl phthalate	39110	0.31	0.67	---	---	1/year	24-hr. Composite
Fluoranthene	34376	0.34	0.84	---	---	1/year	24-hr. Composite
Fluorene	34381	0.29	0.73	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	3.04	12.30	---	---	1/year	24-hr. Composite
Naphthalene	34696	0.29	0.73	---	---	1/year	24-hr. Composite
Nitrobenzene	34447	34.66	99.18	---	---	1/year	24-hr. Composite
Phenanthrene	34461	0.29	0.73	---	---	1/year	24-hr. Composite
Pyrene	34469	0.31	0.74	---	---	1/year	24-hr. Composite
1,2,4-Trichlorobenzene	34551	3.04	12.30	---	---	1/year	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Sample Location Number 1 - at the discharge of the treated Plants B and C process wastewater after the mix tanks and chemical addition at Latitude 30°13'22", Longitude 93°17'08".

Sample Location Number 2 - at the discharge of the Plant B metals treatment facility and the WTU steam stripper(s) prior to commingling with any other streams at Latitude 30°13'27", Longitude 93°17'14".

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 20A - Phase I - Bayou D'Inde Location)

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 201 for the discharge after relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall 20A Phase II startup or the startup of Outfall 201 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall 20A Phase II Limits or 201 limits, respectively.
- (*3) The continuous flow monitoring and recording requirements apply individually to Sample Locations 1 and 2.
- (*4) The pollutant mass discharge shall be monitored at Sample Location 1 only.
- (*5) See Part II.J.
- (*6) See TMDL Requirements in Part II.N.
- (*7) The pollutant mass discharge shall be monitored at Sample Location 2 only.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

**20A PHASE II
 POST-TMDL PARAMETERS**

**USE IN CONJUNCTION WITH INTERNAL OUTFALL 30A, PHASE II OF INTERNAL OUTFALL 10A or 10B, AND PHASES II AND
 III OF FINAL OUTFALL A01or B01**

BAYOU D'INDE LOCATION

During the period beginning upon the startup of Outfall 20A Phase II beginning on June 13, 2008 and lasting until the startup of Outfall 201 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River; or permit expiration the permittee is authorized to discharge from:

Internal Outfall 20A, the discharge of process wastewater and process area stormwater from the Silica manufacturing process; wet scrubber wastewater; Plant C process wastewater; non-process wastewater including groundwater intrusion water, deionization unit regeneration discharge, boiler blowdown, and steam condensate; Plant C caustic sulfate purge water; scrubbing water from process waste incinerator units; chlorinated condensate from Plant C; chlorinated condensate from Plant A electrolyzers; dissolved brine treatment solids from Plant C; low contamination potential stormwater; Plant B OCPSF process wastewater and process area stormwater; and recovered groundwater from Complex wells. (estimated flow is 14.6808 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units					
		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)					
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*3)
TSS(*4)	00530	4678	13821	---	---	2/week	24-hr. Composite
Total Residual Chlorine(*4)	50060	28.8	47.3	---	---	1/week	Grab
<u>METALS(*4)(*5)</u>							
Total Lead	01051	12.35	29.28	---	---	1/week	24-hr. Composite
Total Nickel	01067	32.55	80.26	---	---	1/week	24-hr. Composite
Total Zinc	01092	27.37	36.53	---	---	1/week	24-hr. Composite
<u>METALS (TMDL PARAMETERS) (*4)(*5)(*6)</u>							
Total Copper	01042	---	(*7)	---	---	1/week	24-hr. Composite
Total Mercury	71900	---	(*8)	---	---	1/week	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*5)(*6)(*9)</u>							
Hexachlorobutadiene	34391	---	(*10)	---	---	1/week	24-hr. Composite
Hexachlorobenzene	39700	---	(*11)	---	---	1/week	24-hr. Composite
<u>PESTICIDES (TMDL PARAMETER)(*5)(*6)(*9)</u>							
PCB -1254	39504	---	(*12)	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 20A - Phase II - Bayou D'Inde Location)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	Other Units					Measurement Frequency	Sample Type
	(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)						
	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*5)(*6)(*9)</u>							
1,1,2,2 -Tetrachloroethane	81549	---	(*13)	---	---	1/quarter	24-hr. Composite
Bromoform	32104	---	(*14)	---	---	1/week	24-hr. Composite
<u>VOLATILE COMPOUNDS(*5)(*9)</u>							
Acrylonitrile	34215	1.46	3.59	---	---	1/year	24-hr. Composite
Benzene	34030	0.88	2.08	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	2.20	5.89	---	---	1/week	24-hr. Composite
Chlorobenzene	34301	2.20	5.89	---	---	1/year	24-hr. Composite
Chloroethane	34311	1.70	4.57	---	---	1/week	24-hr. Composite
Chloroform	32106	1.72	5.04	---	---	1/week	24-hr. Composite
1,1-Dichloroethane	34496	0.34	0.91	---	---	1/week	24-hr. Composite
1,2-Dichloroethane	34531	2.79	8.89	---	---	1/week	24-hr. Composite
1,1-Dichloroethylene	34501	0.34	0.93	---	---	1/week	24-hr. Composite
1,2-trans-Dichloroethylene	34546	0.39	1.02	---	---	1/week	24-hr. Composite
1,2-Dichloropropane	34541	3.04	12.30	---	---	1/year	24-hr. Composite
1,3-Dichloropropylene	51044	3.04	12.30	---	---	1/year	24-hr. Composite
Ethylbenzene	34371	2.20	5.89	---	---	1/year	24-hr. Composite
Methyl Chloride	34418	1.70	4.57	---	---	1/year	24-hr. Composite
Methylene Chloride	34423	0.56	2.63	---	---	1/week	24-hr. Composite
Tetrachloroethylene	34475	0.81	2.54	---	---	1/week	24-hr. Composite
Toluene	34010	0.43	1.15	---	---	1/year	24-hr. Composite
1,1,1-Trichloroethane	34506	0.34	0.91	---	---	1/week	24-hr. Composite
1,1,2-Trichloroethane	34511	0.50	1.97	---	---	1/week	24-hr. Composite
Trichloroethylene	39180	0.40	1.07	---	---	1/week	24-hr. Composite
Vinyl Chloride	39175	1.50	2.66	---	---	1/week	24-hr. Composite
<u>ACID COMPOUNDS(*5)(*9)</u>							
2,4-Dimethylphenol	34606	0.29	0.73	---	---	1/year	24-hr. Composite
4,6-Dinitro-o-Cresol	34657	1.21	4.29	---	---	1/year	24-hr. Composite
2,4-Dinitrophenol	34616	18.70	66.48	---	---	1/year	24-hr. Composite
2-Nitrophenol	34591	1.01	3.58	---	---	1/year	24-hr. Composite
4-Nitrophenol	34646	2.51	8.92	---	---	1/year	24-hr. Composite
Phenol	34694	0.80	1.22	---	---	1/week	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 20A - Phase II - Bayou D'Inde Location)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
BASE NEUTRAL COMPOUNDS(*5)(*9)							
Acenaphthene	34205	0.29	0.73	---	---	1/year	24-hr. Composite
Acenaphthylene	34200	0.29	0.73	---	---	1/year	24-hr. Composite
Anthracene	34220	0.29	0.73	---	---	1/year	24-hr. Composite
Benzo(a)anthracene	34526	0.29	0.73	---	---	1/year	24-hr. Composite
Benzo(a)pyrene	34247	0.31	0.74	---	---	1/year	24-hr. Composite
3,4-Benzofluoranthene	34230	0.31	0.74	---	---	1/year	24-hr. Composite
Benzo(k)fluoranthene	34242	0.29	0.73	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	1.47	4.00	---	---	1/year	24-hr. Composite
Chrysene	34320	0.29	0.73	---	---	1/year	24-hr. Composite
1,2-Dichlorobenzene	34536	3.04	12.30	---	---	1/year	24-hr. Composite
1,3-Dichlorobenzene	34566	2.20	5.89	---	---	1/year	24-hr. Composite
1,4-Dichlorobenzene	34571	2.20	5.89	---	---	1/year	24-hr. Composite
Diethyl phthalate	34336	0.71	1.75	---	---	1/year	24-hr. Composite
Dimethyl phthalate	34341	0.29	0.73	---	---	1/year	24-hr. Composite
Di-n-butyl phthalate	39110	0.31	0.67	---	---	1/year	24-hr. Composite
Fluoranthene	34376	0.34	0.84	---	---	1/year	24-hr. Composite
Fluorene	34381	0.29	0.73	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	3.04	12.30	---	---	1/year	24-hr. Composite
Naphthalene	34696	0.29	0.73	---	---	1/year	24-hr. Composite
Nitrobenzene	34447	34.66	99.18	---	---	1/year	24-hr. Composite
Phenanthrene	34461	0.29	0.73	---	---	1/year	24-hr. Composite
Pyrene	34469	0.31	0.74	---	---	1/year	24-hr. Composite
1,2,4-Trichlorobenzene	34551	3.04	12.30	---	---	1/year	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Sample Location Number 1 - at the discharge of the treated Plants B and C process wastewater after the mix tanks and chemical addition at Latitude 30°13'22", Longitude 93°17'08".

Sample Location Number 2 - at the discharge of the Plant B metals treatment facility and the WTU steam stripper(s) prior to commingling with any other streams at Latitude 30°13'27", Longitude 93°17'14".

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 20A - Phase II - Bayou D'Inde Location)

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 201 for the discharge after relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon startup of Outfall 201 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall 201 Phase II Limits.
- (*3) The continuous flow monitoring and recording requirements apply individually to Sample Locations 1 and 2.
- (*4) The pollutant mass discharge shall be monitored at Sample Location 1 only.
- (*5) See Part II.J.
- (*6) See TMDL Requirements in Part II.N.
- (*7) See Total Copper limitation listed in Part I, Pages 8, 14, 25, and 31 of 90 and Footnotes (*9) and (*10) on Pages 11, 17, 28 and 34 of 90.
- (*8) See Total Mercury limitation listed in Part I, Pages 8, 14, 25, and 31 of 90 and Footnotes (*11) and (*12) on Pages 11, 17, 28, and 34 of 90.
- (*9) The pollutant mass discharge shall be monitored at Sample Location 2 only.
- (*10) See Hexachlorobutadiene limitation listed in Part I, Pages 8, 14, 25 and 31 of 90 and Footnotes (*15) and (*16) on Pages 11, 17, 28 and 34 of 90.
- (*11) See Hexachlorobenzene limitation listed in Part I, Pages 8, 14, 25 and 31 of 90 and Footnotes (*17) and (*18) on Pages 11, 12, 17, 18, 28 and 34 of 90.
- (*12) See PCB-1254 limitation listed in Part I, Pages 8, 14, 25 and 31 of 90 and Footnotes (*13) and (*14) on Pages 11, 17, 28 and 34 of 90.
- (*13) See 1,1,2,2 - Tetrachloroethane limitation listed in Part I, Pages 8, 14, 25 and 31 of 90 and Footnote (*20) on Pages 12, 18, 29 and 35 of 90.
- (*14) See Bromoform limitation listed in Part I, Pages 8, 14, 25 and 31 of 90 and Footnote (*19) on Pages 12, 18, 28 and 34 of 90.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

201 PHASE I

PRE-TMDL PARAMETERS

(USE IN CONJUNCTION WITH INTERNAL OUTFALL 301 & PHASE I OF FINAL OUTFALL 001 & INTERNAL OUTFALL 101)
MAIN STEM OF THE CALCASIEU RIVER LOCATION

During the period beginning the startup of Outfall 201 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River, prior to June 12, 2008 (*1)(*2) and lasting until the June 12, 2008 move into Outfall 201 Phase II the permittee is authorized to discharge from:

Internal Outfall 201, the discharge of process wastewater and process area stormwater from the Silica manufacturing process; wet scrubber wastewater; Plant C process wastewater; non-process wastewater including groundwater intrusion water, deionization unit regeneration discharge, boiler blowdown, and steam condensate; Plant C caustic sulfate purge water; scrubbing water from process waste incinerator units; chlorinated condensate from Plant C; chlorinated condensate from Plant A electrolyzers; dissolved brine treatment solids from Plant C; low contamination potential stormwater; Plant B OCPSF process wastewater and process area stormwater; and recovered groundwater from Complex wells. (estimated flow is 14.6808 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units					
		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)					
<u>CONVENTIONAL AND</u>	STORET	Monthly	Daily	Monthly	Daily	Measurement	Sample
<u>NONCONVENTIONAL</u>	Code	Average	Maximum	Average	Maximum	Frequency	Type
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*3)
TSS(*4)	00530	4678	13821	---	---	2/week	24-hr. Composite
Total Residual Chlorine(*4)	50060	28.8	47.3	---	---	1/week	Grab
<u>METALS(*4)(*5)</u>							
Total Lead	01051	12.35	29.28	---	---	1/week	24-hr. Composite
Total Nickel	01067	32.55	80.26	---	---	1/week	24-hr. Composite
Total Zinc	01092	27.37	36.53	---	---	1/week	24-hr. Composite
<u>METALS (TMDL PARAMETERS)(*4)(*5)(*6)</u>							
Total Copper	01042	34.21	81.86	---	---	1/week	24-hr. Composite
Total Mercury	71900	---	Report	---	---	1/week	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*5)(*6)(*7)</u>							
Benzo(a)anthracene	34526	0.29	0.73	---	---	1/quarter	24-hr. Composite
Benzo(a)pyrene	34247	0.31	0.74	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 201 - Phase I - Main Stem of the Calcasieu River Location)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
<u>VOLATILE COMPOUNDS(*5)(*7)</u>							
Acrylonitrile	34215	1.46	3.59	---	---	1/year	24-hr. Composite
Benzene	34030	0.88	2.08	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	2.20	5.89	---	---	1/week	24-hr. Composite
Chlorobenzene	34301	2.20	5.89	---	---	1/year	24-hr. Composite
Chloroethane	34311	1.70	4.57	---	---	1/week	24-hr. Composite
Chloroform	32106	1.72	5.04	---	---	1/week	24-hr. Composite
1,1-Dichloroethane	34496	0.34	0.91	---	---	1/week	24-hr. Composite
1,2-Dichloroethane	34531	2.79	8.89	---	---	1/week	24-hr. Composite
1,1-Dichloroethylene	34501	0.34	0.93	---	---	1/week	24-hr. Composite
1,2-trans-Dichloroethylene	34546	0.39	1.02	---	---	1/week	24-hr. Composite
1,2-Dichloropropane	34541	3.04	12.30	---	---	1/year	24-hr. Composite
1,3-Dichloropropylene	51044	3.04	12.30	---	---	1/year	24-hr. Composite
Ethylbenzene	34371	2.20	5.89	---	---	1/year	24-hr. Composite
Methyl Chloride	34418	1.70	4.57	---	---	1/year	24-hr. Composite
Methylene Chloride	34423	0.56	2.63	---	---	1/week	24-hr. Composite
Tetrachloroethylene	34475	0.81	2.54	---	---	1/week	24-hr. Composite
Toluene	34010	0.43	1.15	---	---	1/year	24-hr. Composite
1,1,1-Trichloroethane	34506	0.34	0.91	---	---	1/week	24-hr. Composite
1,1,2-Trichloroethane	34511	0.50	1.97	---	---	1/week	24-hr. Composite
Trichloroethylene	39180	0.40	1.07	---	---	1/week	24-hr. Composite
Vinyl Chloride	39175	1.50	2.66	---	---	1/week	24-hr. Composite
<u>ACID COMPOUNDS(*5)(*7)</u>							
2,4-Dimethylphenol	34606	0.29	0.73	---	---	1/year	24-hr. Composite
4,6-Dinitro-o-Cresol	34657	1.21	4.29	---	---	1/year	24-hr. Composite
2,4-Dinitrophenol	34616	18.70	66.48	---	---	1/year	24-hr. Composite
2-Nitrophenol	34591	1.01	3.58	---	---	1/year	24-hr. Composite
4-Nitrophenol	34646	2.51	8.92	---	---	1/year	24-hr. Composite
Phenol	34694	0.80	1.22	---	---	1/week	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS(*5)(*7)</u>							
Acenaphthene	34205	0.29	0.73	---	---	1/year	24-hr. Composite
Acenaphthylene	34200	0.29	0.73	---	---	1/year	24-hr. Composite
Anthracene	34220	0.29	0.73	---	---	1/year	24-hr. Composite
3,4-Benzofluoranthene	34230	0.31	0.74	---	---	1/year	24-hr. Composite
Benzo(k)fluoranthene	34242	0.29	0.73	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phtalate	39100	1.47	4.00	---	---	1/year	24-hr. Composite
Chrysene	34320	0.29	0.73	---	---	1/year	24-hr. Composite
1,2-Dichlorobenzene	34536	3.04	12.30	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 201 - Phase I - Main Stem of the Calcasieu River Location)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
1,3-Dichlorobenzene	34566	2.20	5.89	---	---	1/year	24-hr. Composite
1,4-Dichlorobenzene	34571	2.20	5.89	---	---	1/year	24-hr. Composite
Diethyl phthalate	34336	0.71	1.75	---	---	1/year	24-hr. Composite
Dimethyl phthalate	34341	0.29	0.73	---	---	1/year	24-hr. Composite
Di-n-butyl phthalate	39110	0.31	0.67	---	---	1/year	24-hr. Composite
Fluoranthene	34376	0.34	0.84	---	---	1/year	24-hr. Composite
Fluorene	34381	0.29	0.73	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	3.04	12.30	---	---	1/year	24-hr. Composite
Hexachlorobenzene	39700	3.04	12.30	---	---	1/week	24-hr. Composite
Hexachlorobutadiene	34391	2.20	5.89	---	---	1/week	24-hr. Composite
Naphthalene	34696	0.29	0.73	---	---	1/year	24-hr. Composite
Nitrobenzene	34447	34.66	99.18	---	---	1/year	24-hr. Composite
Phenanthrene	34461	0.29	0.73	---	---	1/year	24-hr. Composite
Pyrene	34469	0.31	0.74	---	---	1/year	24-hr. Composite
1,2,4-Trichlorobenzene	34551	3.04	12.30	---	---	1/year	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Sample Location Number 1 - at the discharge of the treated Plants B and C process wastewater after the mix tanks and chemical addition at Latitude 30°13'22", Longitude 93°17'08".

Sample Location Number 2 - at the discharge of the Plant B metals treatment facility and the WTU steam stripper(s) prior to commingling with any other streams at Latitude 30°13'27", Longitude 93°17'14".

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 201 for the discharge after relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon Outfall 201 Phase II start up, these limits will be null and void. Applicable schedules will be Outfall 201 Phase II Limits.
- (*3) The continuous flow monitoring and recording requirements apply individually to Sample Locations 1 and 2.
- (*4) The pollutant mass discharge shall be monitored at Sample Location 1 only.
- (*5) See Part II.K.
- (*6) See TMDL Requirements in Part II.O.
- (*7) The pollutant mass discharge shall be monitored at Sample Location 2 only.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

**201 PHASE II
POST-TMDL PARAMETERS**

**USE IN CONJUNCTION WITH INTERNAL OUTFALL 301, PHASE II OF INTERNAL OUTFALL 101, AND PHASES II AND III OF
FINAL OUTFALL 001**

MAIN STEM OF THE CALCASIEU RIVER LOCATION

During the period beginning upon the startup of Outfall 201 Phase II, after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River, beginning on June 13, 2008 (*1) and lasting until permit expiration the permittee is authorized to discharge from:

Internal Outfall 201, the discharge of process wastewater and process area stormwater from the Silica manufacturing process; wet scrubber wastewater; Plant C process wastewater; non-process wastewater including groundwater intrusion water, deionization unit regeneration discharge, boiler blowdown, and steam condensate; Plant C caustic sulfate purge water; scrubbing water from process waste incinerator units; chlorinated condensate from Plant C; chlorinated condensate from Plant A electrolyzers; dissolved brine treatment solids from Plant C; low contamination potential stormwater; Plant B OCPSF process wastewater and process area stormwater; and recovered groundwater from Complex wells. (estimated flow is 14.6808 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units				Measurement Frequency	Sample Type
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	(lbs/day, UNLESS STATED) Monthly Average	(ug/L, UNLESS STATED) Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder(*2)
TSS(*3)	00530	4678	13821	---	---	2/week	24-hr. Composite
Total Residual Chlorine(*3)	50060	28.8	47.3	---	---	1/week	Grab
<u>METALS(*3)(*4)</u>							
Total Lead	01051	12.35	29.28	---	---	1/week	24-hr. Composite
Total Nickel	01067	32.55	80.26	---	---	1/week	24-hr. Composite
Total Zinc	01092	27.37	36.53	---	---	1/week	24-hr. Composite
<u>METALS (TMDL PARAMETERS)(*3)(*4)(*5)</u>							
Total Copper	01042	---	(*6)	---	---	1/week	24-hr. Composite
Total Mercury	71900	---	(*7)	---	---	1/week	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*4)(*5)(*8)</u>							
Benzo(a)anthracene	34526	---	(*9)	---	---	1/quarter	24-hr. Composite
Benzo(a)pyrene	34247	---	(*10)	---	---	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 201 - Phase II - Main Stem of the Calcasieu River Location)

Effluent Characteristic	STORET Code	Discharge Limitations				Monitoring Requirements	
		Other Units				Measurement Frequency	Sample Type
		(lbs/day, UNLESS STATED)		(ug/L, UNLESS STATED)			
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
<u>VOLATILE COMPOUNDS(*4)(*8)</u>							
Acrylonitrile	34215	1.46	3.59	---	---	1/year	24-hr. Composite
Benzene	34030	0.88	2.08	---	---	1/year	24-hr. Composite
Carbon Tetrachloride	32102	2.20	5.89	---	---	1/week	24-hr. Composite
Chlorobenzene	34301	2.20	5.89	---	---	1/year	24-hr. Composite
Chloroethane	34311	1.70	4.57	---	---	1/week	24-hr. Composite
Chloroform	32106	1.72	5.04	---	---	1/week	24-hr. Composite
1,1-Dichloroethane	34496	0.34	0.91	---	---	1/week	24-hr. Composite
1,2-Dichloroethane	34531	2.79	8.89	---	---	1/week	24-hr. Composite
1,1-Dichloroethylene	34501	0.34	0.93	---	---	1/week	24-hr. Composite
1,2-trans-Dichloroethylene	34546	0.39	1.02	---	---	1/week	24-hr. Composite
1,2-Dichloropropane	34541	3.04	12.30	---	---	1/year	24-hr. Composite
1,3-Dichloropropylene	51044	3.04	12.30	---	---	1/year	24-hr. Composite
Ethylbenzene	34371	2.20	5.89	---	---	1/year	24-hr. Composite
Methyl Chloride	34418	1.70	4.57	---	---	1/year	24-hr. Composite
Methylene Chloride	34423	0.56	2.63	---	---	1/week	24-hr. Composite
Tetrachloroethylene	34475	0.81	2.54	---	---	1/week	24-hr. Composite
Toluene	34010	0.43	1.15	---	---	1/year	24-hr. Composite
1,1,1-Trichloroethane	34506	0.34	0.91	---	---	1/week	24-hr. Composite
1,1,2-Trichloroethane	34511	0.50	1.97	---	---	1/week	24-hr. Composite
Trichloroethylene	39180	0.40	1.07	---	---	1/week	24-hr. Composite
Vinyl Chloride	39175	1.50	2.66	---	---	1/week	24-hr. Composite
<u>ACID COMPOUNDS(*4)(*8)</u>							
2,4-Dimethylphenol	34606	0.29	0.73	---	---	1/year	24-hr. Composite
4,6-Dinitro-o-Cresol	34657	1.21	4.29	---	---	1/year	24-hr. Composite
2,4-Dinitrophenol	34616	18.70	66.48	---	---	1/year	24-hr. Composite
2-Nitrophenol	34591	1.01	3.58	---	---	1/year	24-hr. Composite
4-Nitrophenol	34646	2.51	8.92	---	---	1/year	24-hr. Composite
Phenol	34694	0.80	1.22	---	---	1/week	24-hr. Composite
<u>BASE NEUTRAL COMPOUNDS(*4)(*8)</u>							
Acenaphthene	34205	0.29	0.73	---	---	1/year	24-hr. Composite
Acenaphthylene	34200	0.29	0.73	---	---	1/year	24-hr. Composite
Anthracene	34220	0.29	0.73	---	---	1/year	24-hr. Composite
3,4-Benzofluoranthene	34230	0.31	0.74	---	---	1/year	24-hr. Composite
Benzo(k)fluoranthene	34242	0.29	0.73	---	---	1/year	24-hr. Composite
Bis(2-ethylhexyl)phthalate	39100	1.47	4.00	---	---	1/year	24-hr. Composite
Chrysene	34320	0.29	0.73	---	---	1/year	24-hr. Composite
1,2-Dichlorobenzene	34536	3.04	12.30	---	---	1/year	24-hr. Composite
1,3-Dichlorobenzene	34566	2.20	5.89	---	---	1/year	24-hr. Composite
1,4-Dichlorobenzene	34571	2.20	5.89	---	---	1/year	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 201 - Phase II - Main Stem of the Calcasieu River Location)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units				Measurement Frequency	Sample Type
		(lbs/day, UNLESS STATED)		(ug/L, UNLESS STATED)			
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Diethyl phthalate	34336	0.71	1.75	---	---	1/year	24-hr. Composite
Dimethyl phthalate	34341	0.29	0.73	---	---	1/year	24-hr. Composite
Di-n-butyl phthalate	39110	0.31	0.67	---	---	1/year	24-hr. Composite
Fluoranthene	34376	0.34	0.84	---	---	1/year	24-hr. Composite
Fluorene	34381	0.29	0.73	---	---	1/year	24-hr. Composite
Hexachloroethane	34396	3.04	12.30	---	---	1/year	24-hr. Composite
Hexachlorobenzene	39700	3.04	12.30	---	---	1/week	24-hr. Composite
Hexachlorobutadiene	34391	2.20	5.89	---	---	1/week	24-hr. Composite
Naphthalene	34696	0.29	0.73	---	---	1/year	24-hr. Composite
Nitrobenzene	34447	34.66	99.18	---	---	1/year	24-hr. Composite
Phenanthrene	34461	0.29	0.73	---	---	1/year	24-hr. Composite
Pyrene	34469	0.31	0.74	---	---	1/year	24-hr. Composite
1,2,4-Trichlorobenzene	34551	3.04	12.30	---	---	1/year	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Sample Location Number 1 - at the discharge of the treated Plants B and C process wastewater after the mix tanks and chemical addition at Latitude 30°13'22", Longitude 93°17'08".

Sample Location Number 2 - at the discharge of the Plant B metals treatment facility and the WTU steam stripper(s) prior to commingling with any other streams at Latitude 30°13'27", Longitude 93°17'14".

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 201 for the discharge after relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) The continuous flow monitoring and recording requirements apply individually to Sample Locations 1 and 2.
- (*3) The pollutant mass discharge shall be monitored at Sample Location 1 only.
- (*4) See Part II.K.
- (*5) See TMDL Requirements in Part II.O.
- (*6) See Total Copper limitation listed in Part I, Pages 42 and 47 of 90, Footnote (*9) on Page 44 of 90, and Footnote (*8) on Page 49 of 90.
- (*7) See Total Mercury limitation listed in Part I, Pages 42 and 47 of 90, Footnote (*10) on Page 44 of 90, and Footnote (*9) on Page 49 of 90.
- (*8) The pollutant mass discharge shall be monitored at Sample Location 2 only.
- (*9) See Benzo(a)anthracene limitation listed in Part I, Pages 42 and 47 of 90 and Footnotes (*11) and (*12) Page 45 of 90 and Footnotes (*10) and (*11) Page 50 of 90.
- (*10) See Benzo(a)pyrene limitation listed in Part I, Pages 42 and 47 of 90 and Footnotes (*13) and (*14) Page 45 of 90 and Footnotes (*12) and (*13) Page 50 of 90.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

30A

(USE IN CONJUNCTION WITH FINAL OUTFALL A01 or B01 AND INTERNAL OUTFALLS 10A AND 20A)
BAYOU D'INDE LOCATION

During the period beginning the effective date and lasting through the startup of Outfall 301 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River(*1)(*2) the permittee is authorized to discharge from:

Internal Outfall 30A, the discharge of post first flush stormwater (after collection of a 25 year, 24 hour rainfall event directly to treatment or to a 2 MGD capacity storage tank prior to being routed to treatment).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units					
		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)					
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency(*3)	Sample Type
Flow-MGD	50050	Report	Report	---	---	1/month	Estimate(*4)
TOC	00680	---	---	Report	50 mg/L	1/quarter	Grab
Oil and Grease	03582	---	---	Report	15 mg/L	1/quarter	Grab
<u>METALS (TMDL PARAMETERS)(*5)</u>							
Total Copper	01042	---	---	Report	Report	1/quarter	Grab
Total Mercury	71900	---	---	Report	Report	1/quarter	Grab
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*5)</u>							
Hexachlorobenzene	39700	---	---	Report	Report	1/month	Grab
Hexachlorobutadiene	34391	---	---	Report	Report	1/month	Grab
<u>PESTICIDES (TMDL PARAMETER)(*5)</u>							
PCB -1254	39504	---	---	Report	Report	1/quarter	Grab
<u>VOLATILE COMPOUNDS (TMDL PARAMETERS)(*5)</u>							
1,1,2,2 -Tetrachloroethane	81549	---	---	Report	Report	1/quarter	Grab
Bromoform	32104	---	---	Report	Report	1/quarter	Grab
<u>VOLATILE COMPOUNDS(*5)</u>							
Acrylonitrile	34215	---	---	Report	Report	1/year	Grab
Benzene	34030	---	---	Report	Report	1/year	Grab
Carbon Tetrachloride	32102	---	---	Report	Report	1/month	Grab
Chlorobenzene	34301	---	---	Report	Report	1/year	Grab
Chloroethane	34311	---	---	Report	Report	1/month	Grab
Chloroform	32106	---	---	Report	Report	1/month	Grab
1,1-Dichloroethane	34496	---	---	Report	Report	1/month	Grab
1,2-Dichloroethane	34531	---	---	Report	Report	1/month	Grab
1,1-Dichloroethylene	34501	---	---	Report	Report	1/month	Grab
1,2-trans-Dichloroethylene	34546	---	---	Report	Report	1/month	Grab

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 30A - Bayou D'Inde Location continued)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
1,2-Dichloropropane	34541	---	---	Report	Report	1/year	Grab
1,3-Dichloropropylene	51044	---	---	Report	Report	1/year	Grab
Ethylbenzene	34371	---	---	Report	Report	1/year	Grab
Methyl Chloride	34418	---	---	Report	Report	1/year	Grab
Methylene Chloride	34423	---	---	Report	Report	1/month	Grab
Tetrachloroethylene	34475	---	---	Report	Report	1/month	Grab
Toluene	34010	---	---	Report	Report	1/year	Grab
1,1,1-Trichloroethane	34506	---	---	Report	Report	1/month	Grab
1,1,2-Trichloroethane	34511	---	---	Report	Report	1/month	Grab
Trichloroethylene	39180	---	---	Report	Report	1/month	Grab
Vinyl Chloride	39175	---	---	Report	Report	1/month	Grab
ACID COMPOUNDS(*5)							
2,4-Dimethylphenol	34606	---	---	Report	Report	1/year	Grab
4,6-Dinitro-o-Cresol	34657	---	---	Report	Report	1/year	Grab
2,4-Dinitrophenol	34616	---	---	Report	Report	1/year	Grab
2-Nitrophenol	34591	---	---	Report	Report	1/year	Grab
4-Nitrophenol	34646	---	---	Report	Report	1/year	Grab
Phenol	34694	---	---	Report	Report	1/month	Grab
BASE NEUTRAL COMPOUNDS(*5)							
Acenaphthene	34205	---	---	Report	Report	1/year	Grab
Acenaphthylene	34200	---	---	Report	Report	1/year	Grab
Anthracene	34220	---	---	Report	Report	1/year	Grab
3,4-Benzofluoranthene	34230	---	---	Report	Report	1/year	Grab
Benzo(a)anthracene	34526	---	---	Report	Report	1/year	Grab
Benzo(a)pyrene	34247	---	---	Report	Report	1/year	Grab
Benzo(k)fluoranthene	34242	---	---	Report	Report	1/year	Grab
Bis(2-ethylhexyl)phthalate	39100	---	---	Report	Report	1/year	Grab
Chrysene	34320	---	---	Report	Report	1/year	Grab
1,2-Dichlorobenzene	34536	---	---	Report	Report	1/year	Grab
1,3-Dichlorobenzene	34566	---	---	Report	Report	1/year	Grab
1,4-Dichlorobenzene	34571	---	---	Report	Report	1/year	Grab
Diethyl phthalate	34336	---	---	Report	Report	1/year	Grab
Dimethyl phthalate	34341	---	---	Report	Report	1/year	Grab
Di-n-butyl phthalate	39110	---	---	Report	Report	1/year	Grab
Fluoranthene	34376	---	---	Report	Report	1/year	Grab
Fluorene	34381	---	---	Report	Report	1/year	Grab
Hexachloroethane	34396	---	---	Report	Report	1/year	Grab
Naphthalene	34696	---	---	Report	Report	1/year	Grab

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 30A - Bayou D'Inde Location continued)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units				Measurement Frequency	Sample Type
		(lbs/day, UNLESS STATED)		(ug/L, UNLESS STATED)			
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Nitrobenzene	34447	---	---	Report	Report	1/year	Grab
Phenanthrene	34461	---	---	Report	Report	1/year	Grab
Pyrene	34469	---	---	Report	Report	1/year	Grab
1,2,4-Trichlorobenzene	34551	---	---	Report	Report	1/year	Grab

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outfall 30A, at the point of discharge from the outlet pipe on the south end of the brick/concrete sump at the south end of 13th Street and approximately 65 feet east of the North East end of the Sabine River Water Pond.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 301 for the discharge after relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Upon startup of Outfall 301 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River, these limits will be null and void. Applicable schedules will be Outfall 301 Phase Limits.
- (*3) Samples shall be collected on the same days that Internal Outfall 20A is sampled.
- (*4) Measurement of instantaneous flow rate at time of sample collection
- (*5) See Part II.J

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)
301
**(USE IN CONJUNCTION WITH FINAL OUTFALL 001 AND INTERNAL OUTFALLS 101 and 201)
MAIN STEM OF THE CALCASIEU RIVER LOCATION**

During the period beginning the startup of Outfall 301 after the relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River (*1) and lasting through permit expiration the permittee is authorized to discharge from:

Internal Outfall 301, the discharge of post first flush stormwater, (after collection of a 25 year, 24 hour rainfall event directly to treatment or to a 2 million gpd capacity storage tank prior to being routed to treatment).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units					
		(lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)					
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency(*2)	Sample Type
Flow-MGD	50050	Report	Report	---	---	1/month	Estimate(*3)
TOC	00680	---	---	Report	50 mg/L	1/quarter	Grab
Oil and Grease	03582	---	---	Report	15 mg/L	1/quarter	Grab
<u>METALS (TMDL PARAMETERS)(*4)</u>							
Total Copper	01042	---	---	Report	Report	1/quarter	Grab
Total Mercury	71900	---	---	Report	Report	1/quarter	Grab
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*4)</u>							
Benzo(a)anthracene	34526	---	---	Report	Report	1/quarter	Grab
Benzo(a)pyrene	34247	---	---	Report	Report	1/quarter	Grab
<u>VOLATILE COMPOUNDS(*4)</u>							
Acrylonitrile	34215	---	---	Report	Report	1/year	Grab
Benzene	34030	---	---	Report	Report	1/year	Grab
Carbon Tetrachloride	32102	---	---	Report	Report	1/month	Grab
Chlorobenzene	34301	---	---	Report	Report	1/year	Grab
Chloroethane	34311	---	---	Report	Report	1/month	Grab
Chloroform	32106	---	---	Report	Report	1/month	Grab
1,1-Dichloroethane	34496	---	---	Report	Report	1/month	Grab
1,2-Dichloroethane	34531	---	---	Report	Report	1/month	Grab
1,1-Dichloroethylene	34501	---	---	Report	Report	1/month	Grab
1,2-trans-Dichloroethylene	34546	---	---	Report	Report	1/month	Grab
1,2-Dichloropropane	34541	---	---	Report	Report	1/year	Grab
1,3-Dichloropropylene	51044	---	---	Report	Report	1/year	Grab
Ethylbenzene	34371	---	---	Report	Report	1/year	Grab
Methyl Chloride	34418	---	---	Report	Report	1/year	Grab
Methylene Chloride	34423	---	---	Report	Report	1/month	Grab
Tetrachloroethylene	34475	---	---	Report	Report	1/month	Grab
Toluene	34010	---	---	Report	Report	1/year	Grab

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 301 Calcasieu Main Stem Location continued)

Effluent Characteristic	STORET Code	Discharge Limitations				Monitoring Requirements	
		Other Units				Measurement Frequency	Sample Type
		(lbs/day, UNLESS STATED)		(ug/L, UNLESS STATED)			
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
1,1,1-Trichloroethane	34506	---	---	Report	Report	1/month	Grab
1,1,2-Trichloroethane	34511	---	---	Report	Report	1/month	Grab
Trichloroethylene	39180	---	---	Report	Report	1/month	Grab
Vinyl Chloride	39175	---	---	Report	Report	1/month	Grab
ACID COMPOUNDS(*4)							
2,4-Dimethylphenol	34606	---	---	Report	Report	1/year	Grab
4,6-Dinitro-o-Cresol	34657	---	---	Report	Report	1/year	Grab
2,4-Dinitrophenol	34616	---	---	Report	Report	1/year	Grab
2-Nitrophenol	34591	---	---	Report	Report	1/year	Grab
4-Nitrophenol	34646	---	---	Report	Report	1/year	Grab
Phenol	34694	---	---	Report	Report	1/month	Grab
BASE NEUTRAL COMPOUNDS(*4)							
Acenaphthene	34205	---	---	Report	Report	1/year	Grab
Acenaphthylene	34200	---	---	Report	Report	1/year	Grab
Anthracene	34220	---	---	Report	Report	1/year	Grab
3,4-Benzofluoranthene	34230	---	---	Report	Report	1/year	Grab
Benzo(k)fluoranthene	34242	---	---	Report	Report	1/year	Grab
Bis(2-ethylhexyl)phthalate	39100	---	---	Report	Report	1/year	Grab
Chrysene	34320	---	---	Report	Report	1/year	Grab
1,2-Dichlorobenzene	34536	---	---	Report	Report	1/year	Grab
1,3-Dichlorobenzene	34566	---	---	Report	Report	1/year	Grab
1,4-Dichlorobenzene	34571	---	---	Report	Report	1/year	Grab
Diethyl phthalate	34336	---	---	Report	Report	1/year	Grab
Dimethyl phthalate	34341	---	---	Report	Report	1/year	Grab
Di-n-butyl phthalate	39110	---	---	Report	Report	1/year	Grab
Fluoranthene	34376	---	---	Report	Report	1/year	Grab
Fluorene	34381	---	---	Report	Report	1/year	Grab
Hexachloroethane	34396	---	---	Report	Report	1/year	Grab
Hexachlorobenzene	39700	---	---	Report	Report	1/month	Grab
Hexachlorobutadiene	34391	---	---	Report	Report	1/month	Grab
Naphthalene	34696	---	---	Report	Report	1/year	Grab
Nitrobenzene	34447	---	---	Report	Report	1/year	Grab
Phenanthrene	34461	---	---	Report	Report	1/year	Grab
Pyrene	34469	---	---	Report	Report	1/year	Grab
1,2,4-Trichlorobenzene	34551	---	---	Report	Report	1/year	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Internal Outfall 301 Calcasieu Main Stem Location continued)

Internal Outfall 301, at the point of discharge from the outlet pipe on the south end of the brick/concrete sump at the south end of 13th Street and approximately 65 feet east of the North East end of the Sabine River Water Pond.

FOOTNOTE(S):

- (*1) The Permittee shall notify the Office of Environmental Compliance in writing at least 30 days prior to the startup of discharge through Outfall 301 for the discharge after relocation of Outfall 001 from Bayou D'Inde to the Main Stem of the Calcasieu River. This requirement shall supersede Part III.D.5.
- (*2) Samples shall be collected on the same days that Internal Outfall 201 is sampled.
- (*3) Measurement of instantaneous flow rate at time of sample collection
- (*4) See Part II.K.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 002, the discharge of stormwater runoff from Plant A; steam condensate from Diaphragm Cell Chlor/Alkali production (Plant A); once through non-contact cooling water from Plant A; treated bilge water from barge transport vehicle; potential groundwater intrusion; and intermittent discharges of firewater and from condensate piping (estimated flow is 0.53712 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>		<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)					
<u>CONVENTIONAL AND NONCONVENTIONAL</u>	STORET Code	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency(*1)	Sample Type
Flow-MGD	50050	Report	Report	---	---	3/week	Estimate
pH Minimum/Maximum Vales (Standard Units)	00400	---	---	6.0(*2) (Min)	9.0(*2) (Max)	3/week	Grab
TOC	00680	---	---	Report	50 mg/L	3/week	Grab
Oil and Grease	03582	---	---	Report	15 mg/L	3/week	Grab
<u>METALS AND CYANIDE(*3)(*4)</u>							
Total Copper	01042	---	---	---	Report	1/quarter	Grab
Total Mercury	71900	---	---	---	Report	1/quarter	Grab
<u>BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS)(*3)(*4)</u>							
Benzo(a)anthracene	34526	---	---	---	Report	1/quarter	Grab
Benzo(a)pyrene	34247	---	---	---	Report	1/quarter	Grab

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 002, at the point of discharge at the overflow pipe from the weir located approximately 120 feet SW of the North Dock Storage Tank VC-3 on the north side of the first street near the chlorine caustic loading dock.

FOOTNOTE(S):

(*1) When Discharging.

(*2) The permittee shall report on the Discharge Monitoring Reports both the minimum and maximum instantaneous pH values measured.

(*3) See Part II.K.

(*4) See TMDL Requirements in Part II.O.

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

During the period beginning the effective date and lasting through the expiration date the permittee is authorized to discharge from:

Outfall 004, the discharge of once through non-contact cooling water from Plant A chlorine/caustic facility; wash down from car including car wash; cooling tower blowdown; intermittent discharges from condensate piping and acid tank scrubber discharge; and storm water runoff from caustic storage, chlorine liquefaction, and brine treatment areas (estimated flow is 41.7 MGD).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>STORET Code</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
		(lbs/day, UNLESS STATED)		(mg/L, UNLESS STATED)		<u>Measurement Frequency</u>	<u>Sample Type</u>
<u>CONVENTIONAL AND NONCONVENTIONAL</u>		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow-MGD	50050	Report	Report	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Number of Events >60 Minutes	82581	---	0(*1)	---	---	Continuous	Recorder
pH Range Excursions (Continuous Monitoring), Monthly Total Accumulated Time in Minutes	82582	---	446(*1)	---	---	Continuous	Recorder
pH Minimum/Maximum Values (Standard Units)	00400	---	---	Report (Min)	Report (Max)	Continuous	Recorder
TSS	00530	---	---	---	45	1/week	Grab
TOC	00680	---	---	---	50	1/week	Grab
Oil and Grease	03582	---	---	---	15	1/week	Grab
<u>METALS (TMDL PARAMETERS)(*2)(*3)</u>							
Total Copper	01042	---	Report	---	---	1/quarter	Grab
Total Mercury	71900	---	Report	---	---	1/quarter	Grab
Total Nickel	01067	---	Report	---	---	1/quarter	Grab
Total Zinc	01092	---	Report	---	---	1/quarter	Grab
Total Calcium	00916	---	Report	---	---	1/quarter	Grab
<u>VOLATILE COMPOUNDS (TMDL PARAMETER)(*2)(*3)</u>							
1,2-Dichloroethane	34531	---	Report	---	---	1/quarter	Grab
<u>ACID COMPOUNDS (TMDL PARAMETER)(*2)(*3)</u>							
Phenol	34694	---	Report	---	---	1/quarter	Grab

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 004 continued)

Effluent Characteristic	Discharge Limitations					Monitoring Requirements	
	STORET Code	Other Units (lbs/day, UNLESS STATED) (ug/L, UNLESS STATED)				Measurement Frequency	Sample Type
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
BASE NEUTRAL COMPOUNDS (TMDL PARAMETERS) (*2)(*3)							
2-Methylnaphthalene	77416	---	Report	---	---	1/quarter	Grab
Anthracene	34220	---	Report	---	---	1/quarter	Grab
Benzo(a)anthracene	34526	---	Report	---	---	1/quarter	Grab
Benzo(a)pyrene	34247	---	Report	---	---	1/quarter	Grab
Chrysene	34320	---	Report	---	---	1/quarter	Grab
Dibenzo(a,h)anthracene	34556	---	Report	---	---	1/quarter	Grab
Fluoranthene	34376	---	Report	---	---	1/quarter	Grab
Pyrene	34469	---	Report	---	---	1/quarter	Grab
Phenanthrene	34461	---	Report	---	---	1/quarter	Grab
WHOLE EFFLUENT (CHRONIC)				(Percent %, UNLESS STATED)			
TOXICITY TESTING(*4)	STORET Code(*5)			Monthly Avg Minimum	7-Day Minimum	Measurement Frequency	Sample Type
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TLP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TOP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TPP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TGP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Menidia beryllina</u>	TQP6B	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Lethality, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TLP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Lethality, Static Renewal, 7-Day Chronic <u>Mysidopsis bahia</u>	TOP3E	---	---	Report	Report	1/quarter	24-hr. Composite

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EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Outfall 004 continued)

<u>WHOLE EFFLUENT (CHRONIC)</u>				(Percent %, UNLESS STATED)			
<u>TOXICITY TESTING(*4)</u>	STORET			Monthly Avg	7-Day	Measurement	Sample
	Code(*5)			Minimum	Minimum	Frequency	Type
NOEC, Value [%], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TPP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Pass/Fail [0/1], Growth, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TGP3E	---	---	Report	Report	1/quarter	24-hr. Composite
NOEC, Value [%], Coefficient of Variation, Static Renewal, 7-Day Chronic, <u>Mysidopsis bahia</u>	TQP3E	---	---	Report	Report	1/quarter	24-hr. Composite

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Outfall 004, at the point of discharge approximately 300 feet NE of the North Dock Caustic Tank 109 and approximately 225 feet east of 2nd Street outside the eastern PPG perimeter fence.

FOOTNOTE(S):

- (*1) The pH shall be within the range of 6.0 - 9.0 standard units at all times subject to the continuous monitoring pH range excursion provisions at Part II.I.
- (*2) See Part II.K.
- (*3) See TMDL Requirements in Part II.P.
- (*4) Reporting Outfall will be 004. Results shall be reported on DMR as Outfall TX4.
- (*5) Given test method or other, as approved at 40 CFR part 136.

PART II

OTHER REQUIREMENTS

In addition to the standard conditions required in all permits and listed in Part III, the Office has established the following additional requirements in accordance with the Louisiana Water Quality Regulations.

- A. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations or additional restrictions, if necessary, to maintain the water quality integrity and the designated uses of the receiving water bodies.
- B. This permit does not in any way authorize the permittee to discharge a pollutant not listed or quantified in the application or limited or monitored for in the permit.
- C. Authorization to discharge pursuant to the conditions of this permit does not relieve the permittee of any liability for damages to state waters or private property. For discharges to private land, this permit does not relieve the permittee from obtaining proper approval from the landowner for appropriate easements and rights of way.
- D. For definitions of monitoring and sampling terminology see Part III, Section F.
- E. 24-HOUR ORAL REPORTING: DAILY MAXIMUM LIMITATION VIOLATIONS

Under the provisions of Part III.D.6.e.(3) of this permit, violations of daily maximum limitations for the following pollutants shall be reported orally to the Office of Environmental Compliance within 24 hours from the time the permittee became aware of the violation followed by a written report in five days.

METALS

Total Chromium
Total Copper
Total Lead
Total Nickel
Total Zinc

VOLATILE COMPOUNDS

Acrylonitrile
Benzene
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene
1,2-trans-Dichloroethylene
1,2-Dichloropropane
1,3-Dichloropropylene
Ethylbenzene
Methyl Chloride
Methylene Chloride
Tetrachloroethylene
Toluene
1,1,1-Trichloroethane

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1,1,2-Trichloroethane
Trichloroethylene
Vinyl Chloride

ACID COMPOUNDS

2-Chlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
4,6-Dinitro-o-cresol
2,4-Dinitrophenol
2-Nitrophenol
4-Nitrophenol
Phenol

BASE NEUTRAL COMPOUNDS

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
3,4-Benzofluoranthene
Benzo(k)fluoranthene
Bis(2-ethylhexyl)phthalate
Chrysene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
2,4-Dinitrotoluene
2,6-Dinitrotoluene
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane
Naphthalene
Nitrobenzene
Phenanthrene
Pyrene
1,2,4-Trichlorobenzene

F. COMPOSITE SAMPLING (24-HOUR)1. STANDARD PROVISIONS

Unless otherwise specified in this permit, the term "24-hour composite sample" means a sample consisting of a minimum of four (4) aliquots of effluent collected at regular intervals over a normal

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24-hour operating day and combined in proportion to flow or a sample continuously collected in proportion to flow over a normal 24-hour operating period.

2. VOLATILE COMPOUNDS

For the "24-hour composite" sampling of volatile compounds using EPA Methods 601, 602, 603, 624, 1624, or any other 40 CFR Part 136 (See LAC 33:IX.2531) method approved after the effective date of the permit, the permittee shall manually collect four (4) aliquots (grab samples) in clean zero head-space containers at regular intervals during the actual hours of discharge during the 24-hour sampling period using sample collection, preservation, and handling techniques specified in the test method. These aliquots must be combined in the laboratory to represent the composite sample of the discharge. One of the following alternative methods shall be used to composite these aliquots.

- a. Each aliquot is poured into a syringe. The plunger is added, and the volume in the syringe is adjusted to 1-1/4 ml. Each aliquot (1-1/4 ml.) is injected into the purging chamber of the purge and trap system. After four (4) injections (total 5 ml.), the chamber is purged. Only one analysis or run is required since the aliquots are combined prior to analysis.
- b. Chill the four (4) aliquots to 4 Degrees Centigrade. These aliquots must be of equal volume. Carefully pour the contents of each of the four aliquots into a 250-500 ml. flask which is chilled in a wet ice bath. Stir the mixture gently with a clean glass rod while in the ice bath. Carefully fill two (2) or more clean 40 ml. zero head-space vials from the flask and dispose of the remainder of the mixture. Analyze one of the aliquots to determine the concentration of the composite sample. The remaining aliquot(s) are replicate composite samples that can be analyzed if desired or necessary.
- c. Alternative sample compositing methods may be used following written approval by this Office.

The individual samples resulting from the application of these compositing methods shall be analyzed following the procedures specified for the selected test method. The resulting analysis shall be reported as the daily composite concentration.

As an option to the above compositing methods, the permittee may manually collect four (4) aliquots (grab samples) in clean zero head-space containers at regular intervals during the actual hours of discharge during the 24-hour sampling period using sample collection, preservation, and handling techniques specified in the test method. A separate analysis shall be conducted for each discrete grab sample following the approved test methods. The determination of daily composite concentration shall be the arithmetic average (weighted by flow) of all grab samples collected during the 24-hour sampling period.

G. 40 CFR PART 136 (See LAC 33:IX.4901) ANALYTICAL REQUIREMENTS

Unless otherwise specified in this permit, monitoring shall be conducted according to analytical, apparatus and materials, sample collection, preservation, handling, etc., procedures listed at 40 CFR Part 136, and in particular, Appendices A, B, and C (See LAC 33:IX.4901).

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H. FLOW MEASUREMENT "ESTIMATE" SAMPLE TYPE

If the flow measurement sample type in Part I is specified as "estimate", flow measurements shall not be subject to the accuracy provisions established at Part III.C.6 of this permit. The daily flow value may be estimated using best engineering judgement.

I. pH RANGE EXCURSION PROVISIONS

Where a permittee continuously measures the pH of wastewater as a requirement or option in a Louisiana Pollutant Discharge Elimination System (LPDES) permit, the permittee shall maintain the pH of such wastewater within the range set forth in the permit, except that excursions from the range are permitted, provided:

1. The total time during which the pH values are outside the required range of pH values shall not exceed 446 minutes in any calendar month; and
2. No individual excursion from the range of pH values shall exceed 60 minutes.

For the purposes of this section, an "excursion" is an unintentional and temporary incident in which the pH value of discharge wastewater exceeds the range set forth in the permit.

J. MINIMUM QUANTIFICATION LEVEL (MQL) APPLICABLE DURING DISCHARGE INTO BAYOU D'INDE

If any individual analytical test result is less than the minimum quantification level listed below, a value of zero (0) may be used for that individual result for the Discharge Monitoring Report (DMR) calculations and reporting requirements.

<u>NONCONVENTIONAL</u>	<u>MQL (µg/L)</u>
Phenolics, Total Recoverable (4AAP)	5
Chlorine (Total Residual)	100
3-Chlorophenol	10
4-Chlorophenol	10
2,3-Dichlorophenol	10
2,5-Dichlorophenol	10
2,6-Dichlorophenol	10
3,4-Dichlorophenol	10
2,4-D	10
2,4,5-TP (Silvex)	4
 <u>METALS AND CYANIDE</u>	 <u>MQL (µg/L)</u>
Antimony (Total)	60
Arsenic (Total)	10
Beryllium (Total)	5
Cadmium (Total)	1
Chromium (Total)	10
Chromium (3+)	10
Chromium (6+)	10
Copper (Total)(*)	9.12
Lead (Total)	5

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Mercury (Total)(*)	0.0628
Molybdenum (Total)	30
Nickel (Total) Freshwater	40
Nickel (Total) Marine	5
Selenium (Total)	5
Silver (Total)	2
Thallium (Total)	10
Zinc (Total)	20
Cyanide (Total)	20

DIOXINMQL (µg/L)

2,3,7,8-TCDD

0.00001

VOLATILE COMPOUNDSMQL (µg/L)

Acrolein	50
Acrylonitrile	50
Benzene	10
Bromoform	10
Carbon Tetrachloride	10
Chlorobenzene	10
Chlorodibromomethane	10
Chloroethane	50
2-Chloroethylvinylether	10
Chloroform	10
Dichlorobromomethane	10
1,1-Dichloroethane	10
1,2-Dichloroethane	10
1,1-Dichloroethylene	10
1,2-Dichloropropane	10
1,3-Dichloropropylene	10
Ethylbenzene	10
Methyl Bromide [Bromomethane]	50
Methyl Chloride [Chloromethane]	50
Methylene Chloride	20
1,1,2,2-Tetrachloroethane	10
Tetrachloroethylene	10
Toluene	10
1,2-trans-Dichloroethylene	10
1,1,1-Trichloroethane	10
1,1,2-Trichloroethane	10
Trichloroethylene	10
Vinyl Chloride	10

ACID COMPOUNDSMQL (µg/L)

2-Chlorophenol	10
2,4-Dichlorophenol	10
2,4-Dimethylphenol	10
4,6-Dinitro-o-Cresol [2-Methyl-4,6-Dinitrophenol]	50
2,4-Dinitrophenol	50

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OTHER REQUIREMENTS (continued)

2-Nitrophenol	20
4-Nitrophenol	50
p-Chloro-m-Cresol [4-Chloro-3-Methylphenol]	10
Pentachlorophenol	50
Phenol	10
2,4,6-Trichlorophenol	10

BASE/NEUTRAL COMPOUNDSMQL (µg/L)

Acenaphthene	10
Acenaphthylene	10
Anthracene	10
Benzidine	50
Benzo(a)anthracene	10
Benzo(a)pyrene	10
3,4-Benzofluoranthene	10
Benzo(ghi)perylene	20
Benzo(k)fluoranthene	10
Bis(2-chloroethoxy) Methane	10
Bis(2-chloroethyl) Ether	10
Bis(2-chloroisopropyl) Ether	10
Bis(2-ethylhexyl) Phthalate	10
4-Bromophenyl Phenyl Ether	10
Butylbenzyl Phthalate	10
2-Chloronaphthalene	10
4-Chlorophenyl Phenyl Ether	10
Chrysene	10
Dibenzo(a,h)anthracene	20
1,2-Dichlorobenzene	10
1,3-Dichlorobenzene	10
1,4-Dichlorobenzene	10
3,3'-Dichlorobenzidine	50
Diethyl Phthalate	10
Dimethyl Phthalate	10
Di-n-Butyl Phthalate	10
2,4-Dinitrotoluene	10
2,6-Dinitrotoluene	10
Di-n-octyl Phthalate	10
1,2-Diphenylhydrazine	20
Fluoranthene	10
Fluorene	10
Hexachlorobenzene(*)	0.00228
Hexachlorobutadiene(*)	0.97118
Hexachlorocyclopentadiene	10
Hexachloroethane	20
Indeno(1,2,3-cd)pyrene [2,3-o-Phenylene Pyrene]	20
Isophorone	10
Naphthalene	10
Nitrobenzene	10
n-Nitrosodimethylamine	50

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n-Nitrosodi-n-Propylamine	20
n-Nitrosodiphenylamine	20
Phenanthrene	10
Pyrene	10
1,2,4-Trichlorobenzene	10

PESTICIDESMQL (µg/L)

Aldrin	0.05
Alpha-BHC	0.05
Beta-BHC	0.05
Gamma-BHC [Lindane]	0.05
Delta-BHC	0.05
Chlordane	0.2
4,4'-DDT	0.1
4,4'-DDE [p,p-DDX]	0.1
4,4'-DDD [p,p-TDE]	0.1
Dieldrin	0.1
Alpha-Endosulfan	0.1
Beta-Endosulfan	0.1
Endosulfan Sulfate	0.1
Endrin	0.1
Endrin Aldehyde	0.1
Heptachlor	0.05
Heptachlor Epoxide [BHC-Hexachlorocyclohexane]	0.05
PCB-1242	1.0
PCB-1254(*)	0.000088
PCB-1221	1.0
PCB-1232	1.0
PCB-1248	1.0
PCB-1260	1.0
PCB-1016	1.0
Toxaphene	5.0

* TMDL parameters with site specific MQL (see calculation below)

The permittee may develop an effluent specific method detection limit (MDL) in accordance with Appendix B to 40 CFR Part 136 (See LAC 33:IX.4901). For any pollutant for which the permittee determines an effluent specific MDL, the permittee shall send to this Office a report containing QA/QC documentation, analytical results, and calculations necessary to demonstrate that the effluent specific MDL was correctly calculated. An effluent specific minimum quantification level (MQL) shall be determined in accordance with the following calculation:

$$\text{MQL} = 3.3 \times \text{MDL}$$

Upon written approval by this Office, the effluent specific MQL may be utilized by the permittee for all future Discharge Monitoring Report (DMR) calculations and reporting requirements.

To protect against the potential for discharges of the Bayou D'Inde TMDL pollutants, copper, mercury, hexachlorobenzene, hexachlorobutadiene, and pcb-1254 at levels above that of state water quality

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standards, and for discharges of copper, mercury, hexachlorobenzene, hexachlorobutadiene, and pcb-1254 at levels exceeding state water quality standards, site specific MQL's were developed for these parameters.

$$\text{MQL (mg/L)} = \frac{\text{TMDL assigned Loading for Chemical X}}{\text{Flow used in TMDL} \times 8.34 \text{ conversion factor}}$$

$$\text{MQL } (\mu\text{g/L}) = \text{MQL (mg/L)} \times 1000$$

PARAMETERS	COMBINED TMDL LOADING FOR INTERNAL OUTFALLS 101 and 201 (LBS/DAY)	FLOW (MGD)	CONVERSION FACTOR	MQL DETECTION LIMIT $\mu\text{g/L}$
Copper	1.240000	16.297	8.34	9.12
Mercury	0.008540	16.297	8.34	0.0628
PCB -1254	0.0000124	16.297	8.34	0.000088
Hexachlorobenzene	0.000310	16.297	8.34	0.00228
Hexachlorobutadiene	0.132000	16.297	8.34	0.97118

(*) TMDL document erroneously listed the Daily Maximum Total Copper loading as 0.730000 lbs/day in Table 15 of the Calcasieu Toxics TMDL for Subsegment 030901. EPA, Region VI indicated that the correct Waste Load Allocation (WLA) for Total Copper was calculated in Appendix E (Table E-12) of the Calcasieu Toxics TMDL using the following equation:

$$\text{WLA} = \text{Facility Process Flow Used in the TMDL} \times \text{The Assimilative Capacity Load}$$

PARAMETER	FACILITY PROCESS FLOW (MGD)	ASSIMILATIVE CAPACITY LOAD PER MGD OF PROCESS Flow (PPD/MGD)	ASSIMILATIVE CAPACITY WLA POUND PER DAY (PPD)
Copper	16.297	0.0762	1.240000

K. MINIMUM QUANTIFICATION LEVEL (MQL) APPLICABLE AFTER OUTFALL RELOCATION TO THE MAIN STEM OF THE CALCASIEU RIVER & THE DISCHARGES FROM OUTFALLS 002 & 004

If any individual analytical test result is less than the minimum quantification level listed below, a value of zero (0) may be used for that individual result for the Discharge Monitoring Report (DMR) calculations and reporting requirements.

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<u>NONCONVENTIONAL</u>	<u>MQL (µg/L)</u>
Phenolics, Total Recoverable (4AAP)	5
Chlorine (Total Residual)	100
3-Chlorophenol	10
4-Chlorophenol	10
2,3-Dichlorophenol	10
2,5-Dichlorophenol	10
2,6-Dichlorophenol	10
3,4-Dichlorophenol	10
2,4-D	10
2,4,5-TP (Silvex)	4
<u>METALS AND CYANIDE</u>	<u>MQL (µg/L)</u>
Antimony (Total)	60
Arsenic (Total)	10
Beryllium (Total)	5
Cadmium (Total)	1
Chromium (Total)	10
Chromium (3+)	10
Chromium (6+)	10
Copper (Total)	10
Lead (Total)	5
Mercury (Total)	0.2
Molybdenum (Total)	30
Nickel (Total) Freshwater	40
Nickel (Total) Marine	5
Selenium (Total)	5
Silver (Total)	2
Thallium (Total)	10
Zinc (Total)	20
Cyanide (Total)	20
<u>DIOXIN</u>	<u>MQL (µg/L)</u>
2,3,7,8-TCDD	0.00001
<u>VOLATILE COMPOUNDS</u>	<u>MQL (µg/L)</u>
Acrolein	50
Acrylonitrile	50
Benzene	10
Bromoform	10
Carbon Tetrachloride	10
Chlorobenzene	10
Chlorodibromomethane	10
Chloroethane	50
2-Chloroethylvinylether	10
Chloroform	10
Dichlorobromomethane	10
1,1-Dichloroethane	10
1,2-Dichloroethane	10

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1,1-Dichloroethylene	10
1,2-Dichloropropane	10
1,3-Dichloropropylene	10
Ethylbenzene	10
Methyl Bromide [Bromomethane]	50
Methyl Chloride [Chloromethane]	50
Methylene Chloride	20
1,1,2,2-Tetrachloroethane	10
Tetrachloroethylene	10
Toluene	10
1,2-trans-Dichloroethylene	10
1,1,1-Trichloroethane	10
1,1,2-Trichloroethane	10
Trichloroethylene	10
Vinyl Chloride	10

ACID COMPOUNDSMQL (µg/L)

2-Chlorophenol	10
2,4-Dichlorophenol	10
2,4-Dimethylphenol	10
4,6-Dinitro-o-Cresol [2-Methyl-4,6-Dinitrophenol]	50
2,4-Dinitrophenol	50
2-Nitrophenol	20
4-Nitrophenol	50
p-Chloro-m-Cresol [4-Chloro-3-Methylphenol]	10
Pentachlorophenol	50
Phenol	10
2,4,6-Trichlorophenol	10

BASE/NEUTRAL COMPOUNDSMQL (µg/L)

Acenaphthene	10
Acenaphthylene	10
Anthracene	10
Benzidine	50
Benzo(a)anthracene(*)	1.7474
Benzo(a)pyrene(*)	1.7474
3,4-Benzofluoranthene	10
Benzo(ghi)perylene	20
Benzo(k)fluoranthene	10
Bis(2-chloroethoxy) Methane	10
Bis(2-chloroethyl) Ether	10
Bis(2-chloroisopropyl) Ether	10
Bis(2-ethylhexyl) Phthalate	10
4-Bromophenyl Phenyl Ether	10
Butylbenzyl Phthalate	10
2-Chloronaphthalene	10
4-Chlorophenyl Phenyl Ether	10
Chrysene	10
Dibenzo(a,h)anthracene	20

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1,2-Dichlorobenzene	10
1,3-Dichlorobenzene	10
1,4-Dichlorobenzene	10
3,3'-Dichlorobenzidine	50
Diethyl Phthalate	10
Dimethyl Phthalate	10
Di-n-Butyl Phthalate	10
2,4-Dinitrotoluene	10
2,6-Dinitrotoluene	10
Di-n-octyl Phthalate	10
1,2-Diphenylhydrazine	20
Fluoranthene	10
Fluorene	10
Hexachlorobenzene	10
Hexachlorobutadiene	10
Hexachlorocyclopentadiene	10
Hexachloroethane	20
Indeno(1,2,3-cd)pyrene [2,3-o-Phenylene Pyrene]	20
Isophorone	10
Naphthalene	10
Nitrobenzene	10
n-Nitrosodimethylamine	50
n-Nitrosodi-n-Propylamine	20
n-Nitrosodiphenylamine	20
Phenanthrene	10
Pyrene	10
1,2,4-Trichlorobenzene	10

PESTICIDESMQL (µg/L)

Aldrin	0.05
Alpha-BHC	0.05
Beta-BHC	0.05
Gamma-BHC [Lindane]	0.05
Delta-BHC	0.05
Chlordane	0.2
4,4'-DDT	0.1
4,4'-DDE [p,p-DDX]	0.1
4,4'-DDD [p,p-TDE]	0.1
Dieldrin	0.1
Alpha-Endosulfan	0.1
Beta-Endosulfan	0.1
Endosulfan Sulfate	0.1
Endrin	0.1
Endrin Aldehyde	0.1
Heptachlor	0.05
Heptachlor Epoxide [BHC-Hexachlorocyclohexane]	0.05
PCB-1242	1.0
PCB-1254	1.0
PCB-1221	1.0

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PCB-1232	1.0
PCB-1248	1.0
PCB-1260	1.0
PCB-1016	1.0
Toxaphene	5.0

* TMDL parameters with site specific MQL (see calculation below)

The permittee may develop an effluent specific method detection limit (MDL) in accordance with Appendix B to 40 CFR Part 136 (See LAC 33:IX.4901). For any pollutant for which the permittee determines an effluent specific MDL, the permittee shall send to this Office a report containing QA/QC documentation, analytical results, and calculations necessary to demonstrate that the effluent specific MDL was correctly calculated. An effluent specific minimum quantification level (MQL) shall be determined in accordance with the following calculation:

$$\text{MQL} = 3.3 \times \text{MDL}$$

Upon written approval by this Office, the effluent specific MQL may be utilized by the permittee for all future Discharge Monitoring Report (DMR) calculations and reporting requirements.

To protect against the potential for discharges of the Calcasieu Toxics TMDL pollutants, benzo(a)anthracene and benzo(a)pyrene at levels above that of state water quality standards, and for discharges of benzo(a)anthracene and benzo(a)pyrene at levels exceeding state water quality standards, site specific MQL's were developed for these parameters.

$$\text{MQL (mg/L)} = \frac{\text{TMDL allocation for Chemical X}}{\text{Flow used in Bayou D'Inde TMDL for same outfall} \times 8.34 \text{ conversion factor}}$$

$$\text{MQL } (\mu\text{g/L}) = \text{MQL (mg/L)} \times 1000$$

PARAMETERS	COMBINED TMDL LOADING FOR INTERNAL OUTFALLS 101 and 201 (LBS/DAY)	FLOW (MGD)	CONVERSION FACTOR	MQL DETECTION LIMIT $\mu\text{g/L}$
Benzo(a)anthracene	0.2375	16.297	8.34	1.7474
Benzo(a)pyrene	0.2375	16.297	8.34	1.7474

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- L. The permittee shall achieve compliance with the effluent limitations and monitoring requirements specified for discharges in accordance with the following schedule:

Refer to Parts II.N-Q for applicable schedules.

OPERATIONAL PHASE(S)	DEADLINE DATE
Phase I	effective date of the permit
Phase II	June 13, 2008
Phase III	three years from the effective date of this permit

The limitations shall be achieved on or before the deadline date for the Phases I, II, and III. Additionally, the permittee shall submit annual progress reports to this Office outlining the status of compliance with the water quality based effluent limitations for the TMDL parameters until compliance is achieved.

M. OUTFALL RENUMBERING EXPLANATION

PPG Industries has indicated there are plans to relocate the main outfall (Outfall 001 in the permit effective on July 1, 1991) from it's current location in Bayou D'Inde to the Main Stem of the Calcasieu River. PPG has also indicated that there are plans to shut down mercury cell operations during this permit cycle. Due to the numerous operating scenarios PPG Industries will likely go through during this permit, Outfalls 001, 101, 201, and 301 have been renumbered. The following is a quick reference guide to the renumbering scheme for these outfalls:

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Main Process Outfall and Corresponding Internal Outfalls

OUTFALL NUMBER SERIES(*)	LOCATION	MERCURY CELL STATUS	NUMBER OF PHASES
A01, 10A, 20A, & 30A	Bayou D'Inde	the Mercury Cell is Operating	3 (I, II, & III) for Outfall A01 2(I & II) for Outfalls 10A and 20A. 30A does not have phases.
B01, 10B, 20A, & 30A	Bayou D'Inde	Mercury Cell Closure in Transition	3 (I, II, & III) for Outfall B01 2(I & II) for Outfalls 10B and 20A. 30A does not have phases.
001, 101, 201, & 301	Main Stem of the Calcasieu River	Mercury Cell Closure in Transition	3 (I, II, & III) for Outfall 001 2(I & II) for Outfalls 101 and 201. 301 does not have phases.

(*) PPG Industries will only operate under 1 outfall series at a time. PPG shall follow the proper notification procedures when changing outfall numbers, as identified by Part I, Footnote (*) for all schedules.

Phase I - Prior to TMDL limitations and other Non-TMDL Water Quality limitations taking effect. Unless otherwise stated in Part I of the permit, these parameters require monitor and report only. These requirements shall become effective on the effective date of the permit (A01, 10A, 20A, and 30A), upon the start up of Mercury Cell Closure Transition (B01, 10B, 20A, and 30A), or upon outfall relocation (001, 101, 201, and 301). All Phase I limits will be null and void after June 12, 2008.

Phase II - TMDL limitations become effective on June 13, 2008. Non-TMDL Water Quality parameters, unless otherwise stated in Part I of the permit, require monitor and report only. Phase II limits will be null and void three years from the effective date of the permit for Outfalls (A01, B01, and 001). Phase II limits for Internal Outfalls 10B and 20A expire upon outfall relocation to the Main Stem of the Calcasieu River or upon permit expiration. Phase II limits for Internal Outfalls 101 and 201 expire upon permit expiration.

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Phase III - Non-TMDL Water Quality limitations become effective three years from the effective date of the permit. This phase will also include the effective TMDL limitations carried over from Phase II. This Phase will last until permit expiration.

N. **EFFLUENT LIMITS AND REPORTING REQUIREMENTS FOR TMDL PARAMETERS IN BAYOU D'INDE AT SUBSEGMENT 030901**

Outfalls A01 and/or B01 Phase I effluent reporting requirements shall become effective on the effective date of the permit and expire on June 12, 2008.

Phase I effluent reporting requirements: Outfall A01 and/or B01

PARAMETERS	MONTHLY AVERAGE LBS/DAY	DAILY MAXIMUM LBS/DAY
Total Copper	---	Report(*1)
Total Mercury	---	Report(*1)
PCB-1254	---	Report(*1)
Hexachlorobutadiene(*2)	0.06752	0.20256
Hexachlorobenzene(*2)	0.00010	0.00034
Bromoform(*2)	41	81
1,1,2,2-Tetrachloroethane	---	Report(*1)

(*1) Arithmetic sum of the daily pollutant mass discharges from Internal Outfalls 10A and 20A or Internal Outfalls 10B and 20A.

(*2) Water Quality Limited Parameters established in the July 1, 1991 NPDES permit. Limits were retained since this parameter is TMDL limited.

Outfall A01 and/or B01 Phase II effluent limitations are proposed to commence on June 13, 2008.

The Phase II effluent schedule will require the following limitations: Outfalls A01 and B01

PARAMETERS	DAILY MAXIMUM LBS/DAY (*1)
Total Copper	1.240000
Total Mercury	0.008540
PCB-1254	0.0000124
Hexachlorobutadiene	0.132000
Hexachlorobenzene	0.000310

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PARAMETERS	DAILY MAXIMUM LBS/DAY (*1)
Bromoform	43.000000
1,1,2,2-Tetrachloroethane	2.230000

(*1) The flow weighted combined loadings of Internal Outfalls 10A and 20A or Internal Outfalls 10B and 20A.

The TMDL assigned allocations for daily max monitoring only. There are no requirements placed on these parameters for monthly average monitoring.

The permittee may choose to use Clean Techniques for monitoring Total Copper and Total Mercury, however, use of this technique is optional as long as PPG Industries uses an approved EPA method for analysis.

Title 40, Section 130.7 of the Code of Federal Regulations require the LDEQ to incorporate all final TMDL Assessments approved by EPA into the WQMP. The LDEQ is further required to ensure consistency with the WQMP requirements approved by EPA under Section 208(b) of the Clean Water Act (CWA), as cited in LAC 33:IX.2707.D.6. Therefore, since the requirements established in the Final TMDL (Federal Register Notice: Volume 67, Number 114, pages 40735 - 40737, 6/13/2002) are water quality-based effluent limitations that are part of the State's current Water Quality Management Plan (Volume 8), and are more stringent than the technology based effluent limitations, the TMDL waste load allocations must remain in the permit.

O. EFFLUENT REPORTING REQUIREMENTS FOR TMDL PARAMETERS IN THE MAIN STEM OF THE CALCASIEU RIVER AT SUBSEGMENT 030301

Outfall 001 Phase I effluent reporting requirements begin upon startup of Outfall 001 relocation to the Main Stem of the Calcasieu River, and expires on June 12, 2008.

The Phase I effluent schedule will require the following limitations: Outfall 001

PARAMETERS	DAILY MAXIMUM LBS/DAY (*1)
Total Copper	Report
Total Mercury	Report
Benzo(a)anthracene	Report
Benzo(a)pyrene	Report

(*1) Arithmetic sum of the daily pollutant mass discharges from Internal Outfalls 101 and 201.

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Outfall 001 Phase II effluent limitations are proposed to commence after the relocation to the Main Stem of the Calcasieu River, on June 13, 2008.

The Phase II effluent schedule will require the following limitations: Outfall 001

PARAMETERS	DAILY MAXIMUM LBS/DAY (*1)
Total Copper	7.09000
Total Mercury	0.04894
Benzo(a)anthracene	0.23750
Benzo(a)pyrene	0.23750

(*1) The flow weighted combined loadings of Internal Outfalls 101 and 201.

The Upper Calcasieu Estuary TMDL assigned allocations for daily max monitoring only. Therefore, no requirements have been placed on these parameters for monthly average monitoring. This is consistent with the way the TMDL has been applied to all other facilities originally included in this subsegment.

The permittee may choose to use Clean Techniques for monitoring Total Copper and Total Mercury, however, use of this technique is optional as long as PPG Industries uses an approved EPA method for analysis.

DISCUSSION

The Upper Calcasieu Estuary TMDL at Subsegment 030301 did not include Waste Load Allocations (WLAs) for PPG Industries since the discharges have historically gone into Bayou D'Inde at Subsegment 030901. Subsegment 030301 is impaired for Total Copper, Total Mercury, Benzo(a)anthracene, and Benzo(a)pyrene and has an existing TMDL to address these pollutants. Since PPG was not assigned allocations as part of the existing TMDL, limits for these parameters may be established for new or upgraded discharges using a portion of the Margin Of Safety (MOS) in Subsegment 030301. Therefore, the methodology for establishing limitations to address the impairments under Subsegment 030301 is discussed below.

While PPG Industries opposes incorporation of the TMDL into the renewal of this LPDES permit, they are aware that the LDEQ is required to ensure consistency with the Water Quality Management Plan requirements approved by EPA under Section 208(b) of the Clean Water Act (CWA), as cited in LAC 33:IX.2707.D.6. Therefore, PPG has requested consideration of allocations using the MOS for Total Copper (10.05 lbs/day) and Total Mercury (0.0808 lbs/day plus any unused portion of the WLA), as described in a letter to this Office dated March 2, 2007. The requested allocations would be 86% of the MOS for Total Copper and 100% of the MOS for Total Mercury.

After review of the March 2, 2007 request for specific allocations, the LDEQ proposes to use a fifty percent (50%) portion of the Calcasieu Toxics TMDL MOS for all parameters listed in Subsegment 030301 plus the applicable WLAs assigned in the Bayou D'Inde TMDL under Subsegment 030901. The LDEQ's decision to use 50% of the subsegment 030301 MOS in addition to the Bayou D'Inde, subsegment 030901 WLA is based on the following:

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1. The LDEQ has determined that fifty percent of the MOS should be held in reserve for future growth in the area such as new facilities and/or facility expansions.
2. Use of the WLAs for Total Copper and Total Mercury from the Bayou D'Inde TMDL is appropriate based on the following items:
 - A. PPG has historically been the last facility contributing wastewaters to Bayou D'Inde prior to mixing with the waters of the Main Stem of the Calcasieu River, about 1,200 feet downstream.
 - B. The WLAs used in the Bayou D'Inde TMDL were included in the overall model of the Upper Calcasieu Estuary TMDL for Subsegment 030301.

Based on both factors listed above, the LDEQ has determined the proximity of the new outfall location is similar to the existing conditions and subsequently the overall loadings of Total Copper and Total Mercury in the Main Stem of the Calcasieu River are not reasonably expected to change.

CALCULATIONS

$$\text{Parameter Allocation} = \frac{\text{MOS lbs/day} + \text{WLA from Bayou D'Inde}}{2}$$

PARAMETER	CALCASIEU MAIN STEM (030301) MARGIN OF SAFETY IN POUNDS PER DAY (PPD)	CALCASIEU MAIN STEM (030301) ALLOCATION IN POUNDS PER DAY (PPD)	BAYOU D'INDE (030901) WLA FROM THE TMDL IN POUNDS PER DAY (PPD)	CALCASIEU RIVER ALLOCATION PLUS BAYOU D'INDE WLA IN POUNDS PER DAY (PPD)
Total Copper	11.7	5.85	1.240000	7.09000
Total Mercury	0.0808	0.0404	0.008540	0.04894
Benzo(a) anthracene	0.475	0.2375	N/A	0.2375
Benzo(a) pyrene	0.475	0.2375	N/A	0.2375

(*1) The flow weighted combined loadings of Internal Outfalls 101 and 201.

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Outfall 002 effluent reporting requirements are proposed to commence on the effective date of the permit and expire on the expiration date of the permit.

The effluent schedule will require the following limitations: Outfall 002

PARAMETERS	DAILY MAXIMUM $\mu\text{g/L}$
Total Copper	Report
Total Mercury	Report
Benzo(a)anthracene	Report
Benzo(a)pyrene	Report

Title 40, Section 130.7 of the Code of Federal Regulations require the LDEQ to incorporate all final TMDL Assessments approved by EPA into the WQMP. The LDEQ is further required to ensure consistency with the WQMP requirements approved by EPA under Section 208(b) of the Clean Water Act (CWA), as cited in LAC 33:IX.2707.D.6. Therefore, since the requirements established in the Final TMDL (Federal Register Notice: Volume 67, Number 114, pages 40735 - 40737, 6/13/2002) are water quality-based effluent limitations that are part of the State's current Water Quality Management Plan (Volume 8), and are more stringent than the technology based effluent limitations, the TMDL waste load allocations and/or reporting requirements must remain in the permit.

P. EFFLUENT REPORTING REQUIREMENTS FOR TMDL PARAMETERS IN BAYOU VERDINE AT SUBSEGMENT 030306

Outfall 004 effluent reporting requirements are proposed to commence on the effective date of the permit and expire on the expiration date of the permit.

The effluent schedule will require the following limitations: Outfall 004

PARAMETERS	DAILY MAXIMUM $\mu\text{g/L}$
Total Copper	Report
Total Mercury	Report
Total Nickel	Report
Total Zinc	Report
Total Calcium	Report
1,2-Dichloroethane	Report
Phenol	Report
2-Methylnapthalene	Report

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PARAMETERS	DAILY MAXIMUM $\mu\text{g/L}$
Anthracene	Report
Benzo(a)anthracene	Report
Benzo(a)pyrene	Report
Chrysene	Report
Dibenzo(a,h)anthracene	Report
Fluoranthene	Report
Pyrene	Report
Phenanthrene	Report

Title 40, Section 130.7 of the Code of Federal Regulations require the LDEQ to incorporate all final TMDL Assessments approved by EPA into the WQMP. The LDEQ is further required to ensure consistency with the WQMP requirements approved by EPA under Section 208(b) of the Clean Water Act (CWA), as cited in LAC 33:IX.2707.D.6. Therefore, since the requirements established in the Final TMDL (Federal Register Notice: Volume 67, Number 114, pages 40735 - 40737, 6/13/2002) are water quality-based effluent limitations that are part of the State's current Water Quality Management Plan (Volume 8), and are more stringent than the technology based effluent limitations, the TMDL requirements must remain in the permit.

Q. COMPLIANCE SCHEDULE FOR NON-TMDL PARAMETERS FOR OUTFALLS A01, B01, AND 001

Under the existing permit, effective July 1, 1991, Outfall 001 discharges to Bayou D'Inde. The applicant has proposed to move the location of this outfall to the Main Stem of the Calcasieu River in order to achieve compliance with water quality standards. In accordance with LAC 33:IX.1109.D.1., the Department of Environmental Quality has granted PPG Industries until three years after the effective date of the permit to come into compliance with current water quality standards for Non-TMDL, new Water Quality pollutants. This applies to Outfalls A01, B01, and 101.

PPG Industries will be subject to **NON-TMDL Water Quality Based Requirements at Outfalls A01 and B01** (in addition to the water quality requirements addressed in the Calcasieu TMDL, see Appendices B-4 and B-5), beginning on the effective date of the permit and lasting until three years from the effective date of the permit or until the relocation of the outfall from Bayou D'Inde to the Main Stem of the Calcasieu River. This will cover Phases I and II.

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**Phases I and II effluent schedules will require the following limitations:
 Outfalls A01 and/or B01**

PARAMETERS	MONTHLY AVERAGE LBS/DAY	DAILY MAXIMUM LBS/DAY
Total Nickel	Report	Report
1,1-Dichloroethylene	Report	Report

PPG Industries will be subject to **Water Quality Based Limitations at Outfalls A01 and B01** (in addition to the water quality limitations addressed as part of the Calcasieu TMDL, (see Appendices B-4 and B-5), beginning three years after the effective date of the permit. This will cover Phase III.

**The Phase III effluent schedule will require the following limitations:
 Outfalls A01 and/or B01**

PARAMETERS	MONTHLY AVERAGE LBS/DAY	DAILY MAXIMUM LBS/DAY
Total Nickel	13.59510	32.27539
1,1-Dichloroethylene	2.204345	5.246342

Upon relocation of the outfall from Bayou D'Inde to the Main Stem of the Calcasieu River, PPG will be subject to **Non-TMDL Water Quality Requirements at Outfall 001** (in addition to the water quality limitations addressed as part of the Calcasieu TMDL, see Appendix B-6), beginning upon startup of outfall relocation to the Main Stem of the Calcasieu River and expiring three years from the effective date of the permit. This will cover Phases I and II.

Phases I and II effluent schedules will require the following limitations: Outfall 001

PARAMETERS	MONTHLY AVERAGE LBS/DAY	DAILY MAXIMUM LBS/DAY
Total Nickel	Report	Report
Hexachlorobutadiene	0.891904	2.117422
Hexachlorobenzene	0.005344	0.01272

Upon relocation of the outfall from Bayou D'Inde to the Main Stem of the Calcasieu River, PPG will be subject to **Non-TMDL Water Quality Limitations at Outfall 001** (in addition to the water quality limitations addressed as part of the Calcasieu TMDL, see Appendix B-6), beginning three years after the effective date of the permit and expiring on the expiration date of the permit. This will cover Phase III.

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PARAMETERS	MONTHLY AVERAGE LBS/DAY	DAILY MAXIMUM LBS/DAY
Total Nickel	22.90243	54.37142
Hexachlorobutadiene	0.891904	2.117422
Hexachlorobenzene	0.005344	0.01272

R. PERMIT REOPENER CLAUSE

In accordance with LAC 33:IX.2903, this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit; or
3. Require reassessment due to change in 303(d) status of waterbody; or
4. Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body.

The Louisiana Department of Environmental Quality (LDEQ) reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The LDEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

S. STORMWATER DISCHARGES

1. This section applies to all stormwater discharges from the facility, either through permitted outfalls or through outfalls which are not listed in the permit or as sheet flow. The purpose of the pollution prevention plan is to identify potential sources of pollution that would reasonably be expected to affect the quality of stormwater and identify the practices that will be used to prevent or reduce the pollutants in stormwater discharges.
2. Any runoff leaving the developed areas of the facility, other than the permitted outfall(s), exceeding 50 mg/L TOC, 15 mg/L Oil and Grease, or having a pH less than 6.0 or greater than 9.0

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standard units shall be a violation of this permit. Any discharge in excess of these limitations, which is attributable to offsite contamination shall not be considered a violation of this permit. A visual inspection of the facility shall be conducted and a report made annually as described in Paragraph 4 below.

3. The permittee shall prepare, implement, and maintain a Storm Water Pollution Prevention Plan (SWP3) within six (6) months of the effective date of the final permit. The terms and conditions of the SWP3 shall be an enforceable Part of the permit. If the permittee maintains other plans that contain duplicative information, those plans could be incorporated by reference into the SWP3. Examples of these type plans include, but are not limited to: Spill Prevention Control and Countermeasure Plan (SPCC), Best Management Plan (BMP), Response Plans, etc. EPA document 833-R-92-006 (Storm Water Management for Industrial Activities) may be used as a guidance and may be obtained by writing to the Water Resource Center (RC_4100), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue NW, Washington D.C. 20460 or by calling (202) 566-1729 or via the Wetlands Helpline (800) 832-7828.
4. The following conditions are applicable to all facilities and shall be included in the SWP3 for the facility.
 - a. The permittee shall conduct an annual inspection of the facility site to identify areas contributing to the storm water discharge from developed areas of the facility and evaluate whether measures to reduce pollutant loadings identified in the SWP3 are adequate and have been properly implemented in accordance with the terms of the permit or whether additional control measures are needed.
 - b. The permittee shall develop a site map which includes all areas where stormwater may contact potential pollutants or substances which can cause pollution. Any location where reportable quantities leaks or spills have previously occurred are to be documented in the SWP3. The SWP3 shall contain a description of the potential pollutant sources, including, the type and quantity of material present and what action has been taken to assure stormwater precipitation will not directly contact the substances and result in contaminated runoff.
 - c. Where experience indicates a reasonable potential for equipment failure (e.g. a tank overflow or leakage), natural condition of (e.g. precipitation), or other circumstances which result in significant amounts of pollutants reaching surface waters, the SWP3 should include a prediction of the direction, rate of flow and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
 - d. The permittee shall maintain for a period of three years a record summarizing the results of the inspection and a certification that the facility is in compliance with the SWP3, and identifying any incidents of noncompliance. The summary report should contain, at a minimum, the date and time of inspection, name of inspector(s), conditions found, and changes to be made to the SWP3.
 - e. The summary report and the following certification shall be signed in accordance with LAC 33:IX.2503. The summary report is to be attached to the SWP3 and provided to the Department upon request.

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"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signatory requirements for the certification may be found in Part III, Section D.10 of this permit.

- f. The permittee shall make available to the Department, upon request, a copy of the SWP3 and any supporting documentation.
5. The following shall be included in the SWP3, if applicable.
- a. The permittee shall utilize all reasonable methods to minimize any adverse impact on the drainage system including but not limited to:
 - i. maintaining adequate roads and driveway surfaces;
 - ii. removing debris and accumulated solids from the drainage system; and
 - iii. cleaning up immediately any spill by sweeping, absorbent pads, or other appropriate methods.
 - b. All spilled product and other spilled wastes shall be immediately cleaned up and disposed of according to all applicable regulations, Spill Prevention and Control (SPC) plans or Spill Prevention Control and Countermeasures (SPCC) plans. Use of detergents, emulsifiers, or dispersants to clean up spilled product is prohibited except where necessary to comply with State or Federal safety regulations (i.e., requirement for non-slippery work surface) except where the cleanup practice does not result in a discharge and does not leave residues exposed to future storm events. In all such cases, initial cleanup shall be done by physical removal and chemical usage shall be minimized.
 - c. All equipment, parts, dumpsters, trash bins, petroleum products, chemical solvents, detergents, or other materials exposed to stormwater shall be maintained in a manner which prevents contamination of stormwater by pollutants.
 - d. All waste fuel, lubricants, coolants, solvents, or other fluids used in the repair or maintenance of vehicles or equipment shall be recycled or contained for proper disposal. Spills of these materials are to be cleaned up by dry means whenever possible.
 - e. If applicable, all storage tank installations (with a capacity greater than 660 gallons for an individual container, or 1,320 gallons for two or more containers in aggregate within a common storage area) shall be constructed so that a secondary means of containment is provided for the entire contents of the largest tank plus sufficient freeboard to allow for precipitation. Diked areas should be sufficiently impervious to contain spills.

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- f. All diked areas surrounding storage tanks or stormwater collection basins shall be free of residual oil or other contaminants so as to prevent the accidental discharge of these materials in the event of flooding, dike failure, or improper draining of the diked area. All drains from diked areas shall be equipped with valves which shall be kept in the closed condition except during periods of supervised discharge.
 - g. All check valves, tanks, drains, or other potential sources of pollutant releases shall be inspected and maintained on a regular basis to assure their proper operation and to prevent the discharge of pollutants.
 - h. The permittee shall assure compliance with all applicable regulations promulgated under the Louisiana Solid Waste and Resource Recovery Law and the Hazardous Waste Management Law (L.R.S. 30:2151, etc.). Management practices required under above regulations shall be referenced in the SWP3.
 - i. The permittee shall amend the SWP3 whenever there is a change in the facility or change in the operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.
 - j. If the SWP3 proves to be ineffective in achieving the general objectives of preventing the release of significant amounts of pollutants to water of the state, then the specific objectives and requirements of the SWP3 shall be subject to modification to incorporate revised SWP3 requirements.
6. Facility Specific SWP3 Conditions:

None

T. PROPOSED DISCHARGE NOTIFICATION

Prior approval shall be obtained from this Office for any new proposed discharges at the site. Different monitoring and effluent limitations may be required at this time.

U. DISCHARGE MONITORING REPORTS

Monitoring results must be reported on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1 or an approved substitute). All monitoring reports must be retained for a period of at least three (3) years from the date of the sample measurement. The permittee shall make available to this Department, upon request, copies of all monitoring data required by this permit.

If there is no discharge during the reporting period, place an "X" in the NO DISCHARGE box located in the upper right corner of the Discharge Monitoring Report for that outfall.

Monitoring results for each reporting period shall be summarized on a Discharge Monitoring Report (DMR) Form (one DMR form per monitoring period per outfall) and submitted to the Office of Environmental Compliance either hand delivered or postmarked no later than the 15th day of the month following each reporting period.

1. For parameters that require a monitoring frequency of monthly or more frequent, DMRs shall be submitted in accordance with the following schedule:

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Postmarked no later than the 15th of the following month.

2. For parameters that require a quarterly monitoring frequency, DMRs shall be submitted in accordance with the following schedule:

<u>Monitoring Period</u>	<u>DMR Postmark Date</u>
January, February, March	April 15th
April, May, June July 15th	August 15th
July, August, September	October 15th
October, November, December	January 15th

3. For parameters that require a semiannual monitoring frequency, DMRs shall be submitted in accordance with the following schedule:

<u>Monitoring Period</u>	<u>DMR Postmark Date</u>
January 1 – June 30	July 15th
July 1 - December 31	January 15th

4. For parameters that require an annual monitoring frequency, DMRs shall be submitted in accordance with the following schedule:

<u>Monitoring Period</u>	<u>DMR Postmark Date</u>
January 1 – December 31	January 15th

Duplicate copies of DMR's (one set of originals and one set of copies) signed and certified as required by LAC 33:IX.2503, and all other reports (one set of originals) required by this permit shall be submitted to the Permit Compliance Unit at the following address:

Department of Environmental Quality
Office of Environmental Compliance
Permit Compliance Unit
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312

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V. WHOLE EFFLUENT TOXICITY TESTING (7-DAY CHRONIC NOEC MARINE)1. SCOPE AND METHODOLOGY

- a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

APPLICABLE TO OUTFALL(S): 001 and 004

REPORTED ON DMR AS OUTFALL: TX1 and TX4

CRITICAL DILUTION:

A01 & B01	77%
001	46%
004	93%

EFFLUENT DILUTION SERIES:

A01	24%, 33%, 44%, 58%, and 77%
B01	24%, 33%, 44%, 58%, and 77%
001	19%, 26%, 34%, 46%, and 61%
004	29%, 39%, 52%, 70%, and 93%

COMPOSITE SAMPLE TYPE: Defined in Part I

TEST SPECIES/METHODS: 40 CFR Part 136 (See LAC 33:IX.4901)

Mysidopsis bahia (Mysid shrimp) chronic static renewal 7-day survival and growth test using Method 1007.0, EPA-821-R-02-014, or the most recent update thereof. A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

Menidia beryllina (Inland Silverside minnow) chronic static renewal 7-day larval survival and growth test, Method 1006.0, EPA-821-R-02-014, or the most recent update thereof. A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

- b. The NOEC (No Observed Effect Concentration) is defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur.
- c. This permit may be reopened to require whole effluent toxicity limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.
- d. Test failure is defined as a demonstration of statistically significant sub-lethal or lethal effects to a test species at or below the effluent critical dilution.

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2. PERSISTENT LETHALITY

The requirements of this section apply only when a toxicity test demonstrates significant lethal effects at or below the critical dilution. Significant lethal effects are herein defined as a statistically significant difference at the 95% confidence level between the survival of the appropriate test organism in a specified effluent dilution and the control (0% effluent).

a. Part I Testing Frequency Other Than Monthly

- i. The permittee shall conduct a total of two (2) additional tests for any species that demonstrates significant lethal effects at or below the critical dilution. The two additional tests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two additional tests in lieu of routine toxicity testing, unless the specified testing frequency for the species demonstrating significant lethal effects is monthly. The full report shall be prepared for each test required by this section in accordance with procedures outlined in item 4 of this section and submitted with the period discharge monitoring report (DMR) to the permitting authority for review.
- ii. If one or both of the two additional tests demonstrates significant lethal effects at or below the critical dilution, the permittee shall initiate Toxicity Reduction Evaluation (TRE) requirements as specified in item 6 of this section. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services in writing within 5 days of the failure of any retest, and the TRE initiation date will be the test completion date of the first failed retest. A TRE may also be required due to a demonstration of persistent significant sub-lethal effects or intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests.
- iii. If one or both of the two additional tests demonstrates significant lethal effects at or below the critical dilution, the permittee shall henceforth increase the frequency of testing for this species to once per quarter for the life of the permit.
- iv. The provisions of item 2.a are suspended upon completion of the two additional tests and submittal of the **TRE Action Plan**.

b. Part I Testing Frequency of Monthly

If the testing frequency is monthly for a species, the permittee shall initiate the Toxicity Reduction Evaluation (TRE) requirements as specified in item 6 of this section when any two of three consecutive monthly toxicity tests exhibit significant lethal effects at or below the critical dilution. A TRE may also be required due to a demonstration of persistent significant sub-lethal effects or intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests.

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3. REQUIRED TOXICITY TESTING CONDITIONSa. Test Acceptance

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied including the following additional criteria:

- I. The toxicity test control (0% effluent) must have survival equal to or greater than 80%.
- ii. The mean dry weight of surviving Mysid shrimp at the end of the 7 days in the control (0% effluent) must be 0.20 mg per Mysid or greater. Should the mean dry weight in the control be less than 0.20 mg per Mysid, the toxicity test, including the control and all effluent dilutions shall be repeated.
- iii. The mean dry weight of surviving unpreserved Inland Silverside minnow larvae at the end of the 7 days in the control (0% effluent) must be 0.50 mg per larva or greater. The mean dry weight of surviving preserved Inland Silverside minnow larvae at the end of the 7 days in the control (0% effluent) must be 0.43 mg per larva or greater.
- iv. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for: the growth and survival endpoints in the Mysid shrimp test; and the growth and survival endpoints of the Inland Silverside minnow test.
- v. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant lethal or nonlethal effects are exhibited for: the growth and survival endpoints in the Mysid shrimp test; and the growth and survival endpoints of the Inland Silverside minnow test.

Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

b. Statistical Interpretation

For the Mysid shrimp and the Inland Silverside minnow larval survival and growth test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA-821-R-02-014, or the most recent update thereof.

If the conditions of Test Acceptability are met in Item 3.a above and the percent survival of the test organism is equal to or greater than 80% in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report an NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 4 below.

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c. Dilution Water

- i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness and salinity to the closest downstream perennial water for;
 - (A) toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and
 - (B) toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions.
- ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of item 3), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
 - (A) a synthetic dilution water control which fulfills the test acceptance requirements of item 3.a was run concurrently with the receiving water control;
 - (B) the test indicating receiving water toxicity has been carried out to completion (i.e., 7 days);
 - (C) the permittee includes all test results indicating receiving water toxicity with the full report and information required by item 4 below; and
 - (D) the synthetic dilution water shall have a pH, hardness and salinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

d. Samples and Composites

- i. The permittee shall collect a minimum of three flow-weighted 24-hour composite samples from the outfall(s) listed at item 1.a above. A 24-hour composite sample consists of a minimum of 4 effluent portions collected at equal time intervals representative of a 24-hour operating day and combined proportional to flow or a sample continuously collected proportional to flow over a 24-hour operating day.
- ii. The permittee shall collect second and third 24-hour composite samples for use during 24-hour renewals of each dilution concentration for each test. The permittee must collect the 24-hour composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharges on an intermittent basis.

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- iii. The permittee must collect the 24-hour composite **samples** so that the maximum holding time for any effluent sample shall not exceed **72** hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first 24-hour composite sample. Samples **shall** be chilled to 0-6 degrees Centigrade during collection, shipping, and/or storage.
- iv. If the flow from the outfall(s) being tested ceases **during** the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample **holding** time are waived during that sampling period. However, the permittee must **collect** an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. **When** possible, the effluent samples used for the toxicity tests shall be collected on **separate** days if the discharge occurs over multiple days. The effluent composite **sample** collection duration and the static renewal protocol associated with the **abbreviated** sample collection must be documented in the full report required in item 4 of this **section**.

4. REPORTING

- a. A valid test must be submitted during the reporting period. The permittee shall prepare a full report of the results of all tests conducted pursuant to this **section** in accordance with the Report Preparation Section of EPA 821-R-02-014, or the most **current** publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of Part III.C of this permit. For any test which fails, is considered invalid or which is terminated early **for** any reason, the full report must be submitted for agency review. The permittee shall **submit** the first full report to:

Department of Environmental Quality
 Office of Environmental Compliance
 Enforcement Division
 P.O. Box 4312
 Baton Rouge, Louisiana 70821-4312
 Attn: Permit Compliance Unit

- b. The permittee shall submit the results of each valid toxicity **test** on the subsequent monthly DMR for that reporting period in accordance with Part III.D of this permit. Submit retest information clearly marked as such with the following month's DMR. Only results of valid tests are to be reported on the DMR. The permittee shall **submit** the Table 1 and Table 2 summary sheets with each valid test.
 - i. Menidia beryllina (Inland Silverside minnow)
 - (A) If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0". Parameter No. TLP6B.
 - (B) Report the NOEC value for survival, Parameter **No.** TOP6B.

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- (C) Report the NOEC value for growth, Parameter No. TPP6B.
 - (D) If the No Observed Effect Concentration (NOEC) for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP6B.
 - (E) Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP6B.
- ii. Mysidopsis bahia (Mysid shrimp)
- (A) If the NOEC for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0". Parameter No. TLP3E.
 - (B) Report the NOEC value for survival, Parameter No. TOP3E.
 - (C) Report the NOEC value for growth, Parameter No. TPP3E.
 - (D) If the No Observed Effect Concentration (NOEC) for reproduction is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP3E.
 - (E) Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP3E.
- iii. The permittee shall report the following results for all VALID toxicity retests on the DMR for that reporting period.
- (A) Retest #1 (STORET 22415): If the first monthly retest following failure of a routine test for either test species results in an NOEC for survival less than the critical dilution, report a "1"; otherwise, report a "0."
 - (B) Retest #2 (STORET 22416): If the second monthly retest following failure of a routine test for either test species results in an NOEC for survival less than the critical dilution, report a "1"; otherwise, report a "0."

If, for any reason, a retest cannot be performed during the reporting period in which the triggering routine test failure is experienced, the permittee shall report it on the following reporting period's DMR, and the comments section of both DMRs shall be annotated to that effect. If retesting is not required during a given reporting period, the permittee shall leave these DMR fields blank.

The permittee shall submit the toxicity testing information contained in Tables 1 and 2 of this permit with the DMR subsequent to each and every toxicity test reporting period. The DMR and the summary tables should be sent to the address indicated in 4.a. The permittee is not required to send the first complete report nor summary tables to EPA.

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5. TOXICITY REDUCTION EVALUATION (TRE)

- a. Within ninety (90) days **of confirming lethality in any retests**, the permittee shall submit a **Toxicity Reduction Evaluation (TRE) Action Plan and Schedule** for conducting a TRE. **The TRE Action Plan** shall specify the approach and methodology to be used in performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent limits by reducing an effluent's toxicity to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical characteristics of a toxic effluent to identify the constituents causing effluent toxicity and/or treatment methods which will reduce the effluent toxicity. **The TRE Action Plan** shall lead to the successful elimination of effluent toxicity at the critical dilution and include the following:

- i. **Specific Activities.** The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, identifications and confirmation activities, source evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Characterization Procedures the permittee shall perform multiple characterizations and follow the procedures specified in the documents **"Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA-600/6-91/003)** and **"Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA-600/6-91/005)**, or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee shall perform multiple identifications and follow the methods specified in the documents **"Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080)** and **"Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081)**, as appropriate.

The documents referenced above may be obtained through the National Technical Information Service (NTIS) by phone at (703) 487-4650, or by writing:

U.S. Department of Commerce
National Technical Information Service
5285 Port Royal Road
Springfield, Va. 22161

- ii. **Sampling Plan** (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be adequate to perform the toxicity test, toxicity characterization, identification and confirmation procedures, and conduct chemical specific analyses when a probable toxicant has been identified;

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Where the permittee has identified or suspects specific pollutant(s) and/or source(s) of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical specific analyses for the identified and/or suspected pollutant(s) and/or source(s) of effluent toxicity. Where lethality was demonstrated within 48 hours of test initiation, each composite sample shall be analyzed independently. Otherwise the permittee may substitute a composite sample, comprised of equal portions of the individual composite samples, for the chemical specific analysis;

- iii. Quality Assurance Plan (e.g., QA/QC implementation, corrective actions, etc.); and
 - iv. Project Organization (e.g., project staff, project manager, consulting services, etc.).
- b. The permittee shall initiate the TRE Action Plan within thirty (30) days of plan and schedule submittal. The permittee shall assume all risks for failure to achieve the required toxicity reduction.
- c. The permittee shall submit a quarterly TRE Activities Report, with the Discharge Monitoring Report in the months of January, April, July and October, containing information on toxicity reduction evaluation activities including:
- i. any data and/or substantiating documentation which identifies the pollutant(s) and/or source(s) of effluent toxicity;
 - ii. any studies/evaluations and results on the treatability of the facility's effluent toxicity; and
 - iii. any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution.

The TRE Activities Report shall be submitted to the following addresses:

Department of Environmental Quality
Office of Environmental Compliance
Enforcement Division
P.O. Box 4312
Baton Rouge, Louisiana 70821-4312
Attn: Permit Compliance Unit

U.S. Environmental Protection Agency, Region 6
Water Enforcement Branch, 6 EN-WC
1445 Ross Avenue
Dallas, Texas 75202

- d. The permittee shall submit a Final Report on Toxicity Reduction Evaluation Activities no later than twenty-eight (28) months from confirming lethality in the retests, which provides information pertaining to the specific control mechanism selected that will, when implemented, result in reduction of effluent toxicity to no significant lethality at the critical

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dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism.

A copy of the Final Report on Toxicity Reduction Evaluation Activities shall also be submitted to the above addresses.

- e. Quarterly testing during the TRE is a minimum monitoring requirement. LDEQ recommends that permittees required to perform a TRE not rely on quarterly testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. Failure to identify the specific chemical compound causing toxicity test failure will normally result in a permit limit for whole effluent toxicity limits per federal regulations at 40 CFR 122.44(d)(1)(v) and state regulations at LAC 33:IX.2707.D.1.e.

TABLE 1
SUMMARY SHEET
Mysidopsis bahia SURVIVAL AND REPRODUCTION TEST

PERMITTEE: PPG Industries, Inc. Industrial Chemicals FACILITY SITE: Lake Charles Facility
 NPDES PERMIT NUMBER: LA0000761, 1255 WP PERMIT NUMBER: _____
 OUTFALL IDENTIFICATION: A01
 OUTFALL SAMPLE IS FROM _____ SINGLE _____ MULTIPLE DISCHARGE
 BIOMONITORING LABORATORY: _____
 DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
 CRITICAL DILUTION 77 % DATE TEST INITIATED: _____

1. LOW-FLOW LETHALITY:

Is the mean survival at 7 days significantly less ($p=0.05$) than the control survival at the low-flow or critical dilution?

_____ Yes _____ No

PERCENT SURVIVAL - Mysidopsis

TIME OF READING	PERCENT EFFLUENT					
	0%	24%	33%	44%	58%	77%
24-HOUR						
48-HOUR						
7-DAY						

2. LOW-FLOW NON-LETHALITY:

Is the mean dry weight (growth) at 7 days significantly less ($p=0.05$) than the control's dry weight (growth) for the low-flow or critical dilution? _____ Yes _____ No

DATA TABLE FOR GROWTH - Mysidopsis

PERCENT EFFLUENT	AVERAGE DRY WEIGHT IN MILLIGRAMS IN REPLICATE CHAMBERS					MEAN DRY WEIGHT	CV%*
	A	B	C	D	E		
0%							
24%							
33%							
44%							
58%							
77%							

* Coefficient of variation - standard deviation x 100/mean

TABLE 1
OUTFALL A01 SUMMARY SHEET CONTINUED
Mysidopsis bahia SURVIVAL AND REPRODUCTION TEST

3. Are the test results to be considered valid?
 _____ Yes _____ No
 If X no (test invalid), what reasons for invalidity?
4. Is this a retest of a previous invalid test?
 _____ Yes _____ No
 Is this a retest of a previous test failure?
 _____ Yes _____ No
5. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Mysidopsis:
 - a. NOEC SURVIVAL = _____ % effluent
 - b. NOEC GROWTH = _____ % effluent

TABLE 2
SUMMARY SHEET
Menidia beryllina SURVIVAL AND GROWTH TEST

PERMITTEE: PPG Industries, Inc. Industrial Chemicals FACILITY SITE: Lake Charles Facility
NPDES PERMIT NUMBER: LA0000761, 1255 WP PERMIT NUMBER: _____
OUTFALL IDENTIFICATION: A01
OUTFALL SAMPLE IS FROM _____ SINGLE _____ MULTIPLE DISCHARGE
BIOMONITORING LABORATORY: _____
DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
CRITICAL DILUTION 77 % DATE TEST INITIATED: _____

1. LOW-FLOW LETHALITY:

Is the mean survival at 7 days significantly less ($p=0.05$) than the control survival at the low-flow or critical dilution?

_____ Yes _____ No

PERCENT SURVIVAL - Menidia

PERCENT EFFLUENT	% SURVIVAL/REPLICATES					MEAN % SURVIVAL			CV %
	A	B	C	D	E	24-HR	48-HR	7 DAY	
0%									
24%									
33%									
44%									
58%									
77%									

2. LOW-FLOW NON-LETHALITY:

Is the mean dry weight (growth) at 7 days significantly less ($p=0.05$) than the control's dry weight (growth) for the low-flow or critical dilution?

_____ Yes _____ No

DATA TABLE FOR GROWTH - Menidia

PERCENT EFFLUENT	AVERAGE DRY WEIGHT IN MILLIGRAMS IN REPLICATE CHAMBERS					MEAN DRY WEIGHT	CV%*
	A	B	C	D	E		
0%							
24%							
33%							
44%							
58%							
77%							

* Coefficient of variation - standard deviation x 100/mean

TABLE 2
OUTFALL A01 SUMMARY SHEET CONTINUED
Menidia beryllina SURVIVAL AND GROWTH TEST

3. Are the test results to be considered valid?
_____ Yes _____ No

If X no (test invalid), what reasons for invalidity?

4. Is this a retest of a previous invalid test?
_____ Yes _____ No

Is this a retest of a previous test failure?
_____ Yes _____ No

5. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Menidia:

a. NOEC SURVIVAL = _____ % effluent
b. NOEC GROWTH = _____ % effluent

TABLE 1
SUMMARY SHEET
Mysidopsis bahia SURVIVAL AND REPRODUCTION TEST

PERMITTEE: PPG Industries, Inc. Industrial Chemicals FACILITY SITE: Lake Charles Facility
 NPDES PERMIT NUMBER: LA0000761, 1255 WP PERMIT NUMBER: _____
 OUTFALL IDENTIFICATION: B01
 OUTFALL SAMPLE IS FROM _____ SINGLE _____ MULTIPLE DISCHARGE
 BIOMONITORING LABORATORY: _____
 DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
 CRITICAL DILUTION 77 % DATE TEST INITIATED: _____

1. LOW-FLOW LETHALITY:

Is the mean survival at 7 days significantly less ($p=0.05$) than the control survival at the low-flow or critical dilution?

_____ Yes _____ No

PERCENT SURVIVAL - Mysidopsis

TIME OF READING	PERCENT EFFLUENT					
	0%	24%	33%	44%	58%	77%
24-HOUR						
48-HOUR						
7-DAY						

2. LOW-FLOW NON-LETHALITY:

Is the mean dry weight (growth) at 7 days significantly less ($p=0.05$) than the control's dry weight (growth) for the low-flow or critical dilution?

_____ Yes _____ No

DATA TABLE FOR GROWTH - Mysidopsis

PERCENT EFFLUENT	AVERAGE DRY WEIGHT IN MILLIGRAMS IN REPLICATE CHAMBERS					MEAN DRY WEIGHT	CV%*
	A	B	C	D	E		
0%							
24%							
33%							
44%							
58%							
77%							

* Coefficient of variation - standard deviation x 100/mean

TABLE 1
OUTFALL B01 SUMMARY SHEET CONTINUED
Mysidopsis bahia SURVIVAL AND REPRODUCTION TEST

3. Are the test results to be considered valid?
 _____ Yes _____ No

If X no (test invalid), what reasons for invalidity?

4. Is this a retest of a previous invalid test?
 _____ Yes _____ No

Is this a retest of a previous test failure?
 _____ Yes _____ No

5. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Mysidopsis:

a. NOEC SURVIVAL = _____ % effluent

b. NOEC GROWTH = _____ % effluent

TABLE 2
SUMMARY SHEET
Menidia beryllina SURVIVAL AND GROWTH TEST

PERMITTEE: PPG Industries, Inc. Industrial Chemicals FACILITY SITE: Lake Charles Facility
 NPDES PERMIT NUMBER: LA0000761, 1255 WP PERMIT NUMBER: _____
 OUTFALL IDENTIFICATION: B01
 OUTFALL SAMPLE IS FROM _____ SINGLE _____ MULTIPLE DISCHARGE
 BIOMONITORING LABORATORY: _____
 DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
 CRITICAL DILUTION 77 % DATE TEST INITIATED: _____

1. LOW-FLOW LETHALITY:

Is the mean survival at 7 days significantly less ($p=0.05$) than the control survival at the low-flow or critical dilution? _____ Yes _____ No

PERCENT SURVIVAL - Menidia

PERCENT EFFLUENT	% SURVIVAL/REPLICATES					MEAN % SURVIVAL			CV %
	A	B	C	D	E	24-HR	48-HR	7 DAY	
0%									
24%									
33%									
44%									
58%									
77%									

2. LOW-FLOW NON-LETHALITY:

Is the mean dry weight (growth) at 7 days significantly less ($p=0.05$) than the control's dry weight (growth) for the low-flow or critical dilution?
 _____ Yes _____ No

DATA TABLE FOR GROWTH - Menidia

PERCENT EFFLUENT	AVERAGE DRY WEIGHT IN MILLIGRAMS IN REPLICATE CHAMBERS					MEAN DRY WEIGHT	CV%*
	A	B	C	D	E		
0%							
24%							
33%							
44%							
58%							
77%							

* Coefficient of variation - standard deviation x 100/mean

TABLE 2
OUTFALL B01 SUMMARY SHEET CONTINUED
Menidia beryllina SURVIVAL AND GROWTH TEST

3. Are the test results to be considered valid?
 _____ Yes _____ No

If X no (test invalid), what reasons for invalidity?

4. Is this a retest of a previous invalid test?
 _____ Yes _____ No

Is this a retest of a previous test failure?
 _____ Yes _____ No

5. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Menidia:

a. NOEC SURVIVAL = _____ % effluent

b. NOEC GROWTH = _____ % effluent

TABLE 1
SUMMARY SHEET
Mysidopsis bahia SURVIVAL AND REPRODUCTION TEST

PERMITTEE: PPG Industries, Inc. Industrial Chemicals FACILITY SITE: Lake Charles Facility
 NPDES PERMIT NUMBER: LA0000761, 1255 WP PERMIT NUMBER: _____
 OUTFALL IDENTIFICATION: 001
 OUTFALL SAMPLE IS FROM _____ SINGLE _____ MULTIPLE DISCHARGE
 BIOMONITORING LABORATORY: _____
 DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
 CRITICAL DILUTION 46 % DATE TEST INITIATED: _____

1. LOW-FLOW LETHALITY:

Is the mean survival at 7 days significantly less ($p=0.05$) than the control survival at the low-flow or critical dilution?

_____ Yes _____ No

PERCENT SURVIVAL - Mysidopsis

TIME OF READING	PERCENT EFFLUENT					
	0%	19%	26%	34%	46%	61%
24-HOUR						
48-HOUR						
7-DAY						

2. LOW-FLOW NON-LETHALITY:

Is the mean dry weight (growth) at 7 days significantly less ($p=0.05$) than the control's dry weight (growth) for the low-flow or critical dilution?

_____ Yes _____ No

DATA TABLE FOR GROWTH - Mysidopsis

PERCENT EFFLUENT	AVERAGE DRY WEIGHT IN MILLIGRAMS IN REPLICATE CHAMBERS					MEAN DRY WEIGHT	CV%*
	A	B	C	D	E		
0%							
19%							
26%							
34%							
46%							
61%							

* Coefficient of variation - standard deviation x 100/mean

TABLE 1
OUTFALL 001 SUMMARY SHEET CONTINUED
Mysidopsis bahia SURVIVAL AND REPRODUCTION TEST

3. Are the test results to be considered valid?
_____ Yes _____ No

If X no (test invalid), what reasons for invalidity?

4. Is this a retest of a previous invalid test?
_____ Yes _____ No

Is this a retest of a previous test failure?
_____ Yes _____ No

5. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Mysidopsis:

a.	NOEC SURVIVAL	=	_____ % effluent
b.	NOEC GROWTH	=	_____ % effluent

TABLE 2
SUMMARY SHEET
Menidia beryllina SURVIVAL AND GROWTH TEST

PERMITTEE: PPG Industries, Inc. Industrial Chemicals FACILITY SITE: Lake Charles Facility
 NPDES PERMIT NUMBER: LA0000761, 1255 WP PERMIT NUMBER: _____
 OUTFALL IDENTIFICATION: 001
 OUTFALL SAMPLE IS FROM _____ SINGLE _____ MULTIPLE DISCHARGE
 BIOMONITORING LABORATORY: _____
 DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
 CRITICAL DILUTION 46 % DATE TEST INITIATED: _____

1. LOW-FLOW LETHALITY:

Is the mean survival at 7 days significantly less ($p=0.05$) than the control survival at the low-flow or critical dilution? _____ Yes _____ No

PERCENT SURVIVAL - Menidia

PERCENT EFFLUENT	% SURVIVAL/REPLICATES					MEAN % SURVIVAL			CV %
	A	B	C	D	E	24-HR	48-HR	7 DAY	
0%									
19%									
26%									
34%									
46%									
61%									

2. LOW-FLOW NON-LETHALITY:

Is the mean dry weight (growth) at 7 days significantly less ($p=0.05$) than the control's dry weight (growth) for the low-flow or critical dilution?
 _____ Yes _____ No

DATA TABLE FOR GROWTH - Menidia

PERCENT EFFLUENT	AVERAGE DRY WEIGHT IN MILLIGRAMS IN REPLICATE CHAMBERS					MEAN DRY WEIGHT	CV%*
	A	B	C	D	E		
0%							
19%							
26%							
34%							
46%							
61%							

* Coefficient of variation - standard deviation x 100/mean

TABLE 2
OUTFALL 001 SUMMARY SHEET CONTINUED
Menidia beryllina SURVIVAL AND GROWTH TEST

3. Are the test results to be considered valid?
_____ Yes _____ No

If X no (test invalid), what reasons for invalidity?

4. Is this a retest of a previous invalid test?
_____ Yes _____ No

Is this a retest of a previous test failure?
_____ Yes _____ No

5. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Menidia:

a. NOEC SURVIVAL = _____ % effluent

b. NOEC GROWTH = _____ % effluent

TABLE 1
SUMMARY SHEET
Mysidopsis bahia SURVIVAL AND REPRODUCTION TEST

PERMITTEE: PPG Industries, Inc. Industrial Chemicals FACILITY SITE: Lake Charles Facility
 NPDES PERMIT NUMBER: LA0000761, 1255 WP PERMIT NUMBER: _____
 OUTFALL IDENTIFICATION: 004
 OUTFALL SAMPLE IS FROM _____ SINGLE _____ MULTIPLE DISCHARGE
 BIOMONITORING LABORATORY: _____
 DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
 CRITICAL DILUTION 93 % DATE TEST INITIATED: _____

1. LOW-FLOW LETHALITY:

Is the mean survival at 7 days significantly less ($p=0.05$) than the control survival at the low-flow or critical dilution? _____ Yes _____ No

PERCENT SURVIVAL - Mysidopsis

TIME OF READING	PERCENT EFFLUENT					
	0%	29%	39%	52%	70%	93%
24-HOUR						
48-HOUR						
7-DAY						

2. LOW-FLOW NON-LETHALITY:

Is the mean dry weight (growth) at 7 days significantly less ($p=0.05$) than the control's dry weight (growth) for the low-flow or critical dilution? _____ Yes _____ No

DATA TABLE FOR GROWTH - Mysidopsis

PERCENT EFFLUENT	AVERAGE DRY WEIGHT IN MILLIGRAMS IN REPLICATE CHAMBERS					MEAN DRY WEIGHT	CV%*
	A	B	C	D	E		
0%							
29%							
39%							
52%							
70%							
93%							

* Coefficient of variation - standard deviation x 100/mean

TABLE 1
OUTFALL 004 SUMMARY SHEET CONTINUED
Mysidopsis bahia SURVIVAL AND REPRODUCTION TEST

3. Are the test results to be considered valid?
 _____ Yes _____ No

If X no (test invalid), what reasons for invalidity?

4. Is this a retest of a previous invalid test?
 _____ Yes _____ No

Is this a retest of a previous test failure?
 _____ Yes _____ No

5. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Mysidopsis:

a.	NOEC SURVIVAL	=	_____ % effluent
b.	NOEC GROWTH	=	_____ % effluent

TABLE 2
SUMMARY SHEET
Menidia beryllina SURVIVAL AND GROWTH TEST

PERMITTEE: PPG Industries, Inc. Industrial Chemicals FACILITY SITE: Lake Charles Facility
 NPDES PERMIT NUMBER: LA0000761, 1255 WP PERMIT NUMBER: _____
 OUTFALL IDENTIFICATION: 004
 OUTFALL SAMPLE IS FROM _____ SINGLE _____ MULTIPLE DISCHARGE
 BIOMONITORING LABORATORY: _____
 DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
 CRITICAL DILUTION 93 % DATE TEST INITIATED: _____

1. LOW-FLOW LETHALITY:

Is the mean survival at 7 days significantly less ($p=0.05$) than the control survival at the low-flow or critical dilution? _____ Yes _____ No

PERCENT SURVIVAL - Menidia

PERCENT EFFLUENT	% SURVIVAL/REPLICATES					MEAN % SURVIVAL			CV %
	A	B	C	D	E	24-HR	48-HR	7 DAY	
0%									
29%									
39%									
52%									
70%									
93%									

2. LOW-FLOW NON-LETHALITY:

Is the mean dry weight (growth) at 7 days significantly less ($p=0.05$) than the control's dry weight (growth) for the low-flow or critical dilution?
 _____ Yes _____ No

DATA TABLE FOR GROWTH - Menidia

PERCENT EFFLUENT	AVERAGE DRY WEIGHT IN MILLIGRAMS IN REPLICATE CHAMBERS					MEAN DRY WEIGHT	CV%*
	A	B	C	D	E		
0%							
29%							
39%							
52%							
70%							
93%							

* Coefficient of variation - standard deviation x 100/mean

TABLE 2
OUTFALL 004 SUMMARY SHEET CONTINUED
Menidia beryllina SURVIVAL AND GROWTH TEST

3. Are the test results to be considered valid?
 _____ Yes _____ No

If X no (test invalid), what reasons for invalidity?

4. Is this a retest of a previous invalid test?
 _____ Yes _____ No

Is this a retest of a previous test failure?
 _____ Yes _____ No

5. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Menidia:

a. NOEC SURVIVAL = _____ % effluent

b. NOEC GROWTH = _____ % effluent

PART III
STANDARD CONDITIONS FOR LPDES PERMITS

SECTION A. GENERAL CONDITIONS

1. Introduction

In accordance with the provisions of LAC 33:IX.2701, et seq., this permit incorporates either expressly or by reference ALL conditions and requirements applicable to Louisiana Pollutant Discharge Elimination System Permits (LPDES) set forth in the Louisiana Environmental Quality Act (LEQA), as amended, as well as ALL applicable regulations.

2. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act (CWA) and the Louisiana Environmental Quality Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

3. Penalties for Violation of Permit Conditions

- a. LA. R. S. 30:2025 provides for civil penalties for violations of these regulations and the Louisiana Environmental Quality Act. LA. R. S. 30:2076.2 provides for criminal penalties for violation of any provisions of the LPDES or any order or any permit condition or limitation issued under or implementing any provisions of the LPDES program. (See Section E. Penalties for Violation of Permit Conditions for additional details).
- b. Any person may be assessed an administrative penalty by the State Administrative Authority under LA. R. S. 30:2025 for violating a permit condition or limitation implementing any of the requirements of the LPDES program in a permit issued under the regulations or the Louisiana Environmental Quality Act.

4. Toxic Pollutants

- a. Other effluent limitations and standards under Sections 301, 302, 303, 307, 318, and 405 of the Clean Water Act. If any applicable toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Section 307(a) of the Clean Water Act for a toxic pollutant and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, the state administrative authority shall institute proceedings under these regulations to modify or revoke and reissue the permit to conform to the toxic effluent standard or prohibition.
- b. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions, or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.

5. Duty to Reapply

- a. Individual Permits. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The new application shall be submitted at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the state administrative authority. (The state administrative authority shall not grant permission for applications to be submitted later than the expiration date of the existing permit.) Continuation of expiring permits shall be governed by regulations promulgated at LAC 33:IX.2321 and any subsequent amendments.

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- b. General Permits. General permits expire five years after the effective date. The 180-day reapplication period as defined above is not applicable to general permit authorizations. Reissued general permits may provide automatic coverage for permittees authorized under the previous version of the permit, and no new application is required. Requirements for obtaining authorization under the reissued general permit will be outlined in Part I of the new permit. Permittees authorized to discharge under an expiring general permit should follow the requirements for obtaining coverage under the new general permit to maintain discharge authorization.

6. Permit Action

This permit may be modified, revoked and reissued, or terminated for cause in accordance with LAC 33:IX.2903, 2905, 2907, 3105 and 6509. The causes may include, but are not limited to, the following:

- a. Noncompliance by the permittee with any condition of the permit;
- b. The permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or the permittee's misrepresentation of any relevant facts at any time;
- c. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination;
- d. A change in any condition that requires either a temporary or a permanent reduction or elimination of any discharge; or
- e. Failure to pay applicable fees under the provisions of LAC 33: IX. Chapter 13;
- f. Change of ownership or operational control;

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

7. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information

The permittee shall furnish to the state administrative authority, within a reasonable time, any information which the state administrative authority may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the state administrative authority, upon request, copies of records required to be kept by this permit.

9. Criminal and Civil Liability

Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of the permit, the Act, or applicable regulations, which avoids or effectively defeats the regulatory purpose of the Permit may subject the Permittee to criminal enforcement pursuant to La. R.S. 30:2025.

10. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

11. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

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12. Severability

If any provision of these rules and regulations, or the application thereof, is held to be invalid, the remaining provisions of these rules and regulations shall not be affected, so long as they can be given effect without the invalid provision. To this end, the provisions of these rules and regulations are declared to be severable.

13. Dilution

A permittee shall not achieve any effluent concentration by dilution unless specifically authorized in the permit. A permittee shall not increase the use of process water or cooling water or otherwise attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve permit limitations or water quality.

SECTION B. PROPER OPERATION AND MAINTENANCE**1. Need to Halt or Reduce not a Defense**

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

2. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. The permittee shall also take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with the permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

3. Proper Operation and Maintenance

- a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and other functions necessary to ensure compliance with the conditions of this permit.

4. Bypass of Treatment Facilities

- a. **Bypass**. The intentional diversion of waste streams from any portion of a treatment facility.
- b. **Bypass not exceeding limitations**. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Section B.4.c. and 4.d of these standard conditions.
- c. **Notice**
 - (1) **Anticipated bypass**. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Office of Environmental Services, Water Permits Division, if possible at least ten days before the date of the bypass.
 - (2) **Unanticipated bypass**. The permittee shall submit notice of an unanticipated bypass as required in LAC 33:IX.2701.L.6, (24-hour notice) and Section D.6.e. of these standard conditions.

d. Prohibition of bypass

- (1) Bypass is prohibited, and the state administrative authority may take enforcement action against a permittee for bypass, unless:
 - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,
 - (c) The permittee submitted notices as required by Section B.4.c of these standard conditions.
- (2) The state administrative authority may approve an anticipated bypass after considering its adverse effects, if the state administrative authority determines that it will meet the three conditions listed in Section B.4.d(1) of these standard conditions.

5. Upset Conditions

- a. Upset. An exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Section B.5.c. are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated; and
 - (3) The permittee submitted notice of the upset as required by LAC 33:IX.2701.L.6.b.ii. and Section D.6.e.(2) of these standard conditions; and
 - (4) The permittee complied with any remedial measures required by Section B.2 of these standard conditions.
- d. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. Removed Substances

Solids, sewage sludges, filter backwash, or other pollutants removed in the course of treatment or wastewater control shall be properly disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the state and in accordance with environmental regulations.

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7. Percent Removal

For publicly owned treatment works, the 30-day average percent removal for Biochemical Oxygen Demand and Total Suspended Solids shall not be less than 85 percent in accordance with LAC 33:IX.5905.A.3. and B.3.

SECTION C. MONITORING AND RECORDS1. Inspection and Entry

The permittee shall allow the state administrative authority or an authorized representative (including an authorized contractor acting as a representative of the Administrator), upon the presentation of credentials and other documents as may be required by the law to:

- a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.

Enter upon the permittee's premises where a discharge source is or might be located or in which monitoring equipment or records required by a permit are kept for inspection or sampling purposes. Most inspections will be unannounced and should be allowed to begin immediately, but in no case shall begin more than thirty (30) minutes after the time the inspector presents his/her credentials and announces the purpose(s) of the inspection. Delay in excess of thirty (30) minutes shall constitute a violation of this permit. However, additional time can be granted if the inspector or the Administrative Authority determines that the circumstances warrant such action; and

- b. Have access to and copy, at reasonable times, any records that the department or its authorized representative determines are necessary for the enforcement of this permit. For records maintained in either a central or private office that is open only during normal office hours and is closed at the time of inspection, the records shall be made available as soon as the office is open, but in no case later than the close of business the next working day;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Louisiana Environmental Quality Act, any substances or parameters at any location.

e. Sample Collection

- (1) When the inspector announces that samples will be collected, the permittee will be given an additional thirty (30) minutes to prepare containers in order to collect duplicates. If the permittee cannot obtain and prepare sample containers within this time, he is considered to have waived his right to collect duplicate samples and the sampling will proceed immediately. Further delay on the part of the permittee in allowing initiation of the sampling will constitute a violation of this permit.
- (2) At the discretion of the administrative authority, sample collection shall proceed immediately (without the additional 30 minutes described in Section C.1.a. above) and the inspector shall supply the permittee with a duplicate sample.

- f. It shall be the responsibility of the permittee to ensure that a facility representative familiar with provisions of its wastewater discharge permit, including any other conditions or limitations, be available either by phone or in person at the facility during all hours of operation. The absence of such personnel on-site who are familiar with the permit shall not be grounds for delaying the initiation of an inspection except in situations as described in Section C.1.b. of these standard conditions. The permittee shall be responsible for providing witnesses/escorts during inspections. Inspectors shall abide by all company safety rules and shall be equipped with standard safety equipment (hard hat, safety shoes, safety glasses) normally required by industrial facilities.

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- g. Upon written request copies of field notes, drawings, etc., taken by department personnel during an inspection shall be provided to the permittee after the final inspection report has been completed.

2. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. All samples shall be taken at the outfall location(s) indicated in the permit. The state administrative authority shall be notified prior to any changes in the outfall location(s). Any changes in the outfall location(s) may be subject to modification, revocation and reissuance in accordance with LAC 33:IX.2903.

3. Retention of Records

Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the state administrative authority at any time.

4. Record Contents

Records of monitoring information shall include:

- a. The date, exact place, and time of sampling or measurements;
- b. The individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The time(s) analyses were begun;
- e. The individual(s) who performed the analyses;
- f. The analytical techniques or methods used;
- g. The results of such analyses; and
- h. The results of all quality control procedures.

5. Monitoring Procedures

- a. Monitoring results must be conducted according to test procedures approved under 40 CFR Part 136 (See LAC 33:IX.4901) or, in the case of sludge use or disposal, approved under 40 CFR part 136 (See LAC 33:IX.4901) unless otherwise specified in 40 CFR part 503, unless other test procedures have been specified in this permit. This includes procedures contained in the latest EPA approved edition of the following publications:
 - (1) "Standard Methods for the Examination of Water and Waste Water". This publication is available from the American Public Health Association, Publication Sales, P. O. Box 753, Waldorf, MD 20604-0573, Phone number (301) 893-1894, Fax number (301) 843-0159.
 - (2) "Annual Book of Standards, Vols 1101-1103, Water I, Water II, and Atmospheric Analysis". This publication is available from the American Society for Testing Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, Phone number (610) 832-9500.
 - (3) "Methods for Chemical Analysis of Water and Wastes, Revised, March 1983," U.S. Environmental Protection Agency, Analytical Quality Control Laboratory, Cincinnati, Ohio. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS publication number PB-84-128677.
- b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities.

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- c. An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory. General sampling protocol shall follow guidelines established in the "Handbook for Sampling and Sample Preservation of Water and Wastewater, 1982" U.S. Environmental Protection Agency. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS publication number PB-83-124503. General laboratory procedures including glassware cleaning, etc. can be found in the "Handbook for Analytical Quality Control in Water and Wastewater Laboratories, 1979," U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory. This publication is available from the Environmental Protection Agency, Phone number (513) 569-7562. Order by EPA publication number EPA-600/4-79-019.

6. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:

- a. "A Guide to Methods and Standards for the Measurement of Water Flow, 1975," U.S. Department of Commerce, National Bureau of Standards. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS publication number COM-75-10683.
- b. "Flow Measurement in Open Channels and Closed Conduits, Volumes 1 and 2," U.S. Department of Commerce, National Bureau of Standards. This publication is available from the National Technical Service (NTIS), Springfield, VA, 22161, Phone number (800) 553-6847. Order by NTIS publication number PB-273 535.
- c. "NPDES Compliance Flow Measurement Manual," U.S. Environmental Protection Agency, Office of Water Enforcement. This publication is available from the National Technical Information Service (NTIS), Springfield, VA 22161, Phone number (800) 553-6847. Order by NTIS publication number PB-82-131178.

7. Prohibition for Tampering: Penalties

- a. LA R.S. 30:2025 provides for punishment of any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit.
- b. LA R.S. 30:2076.2 provides for penalties for any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non compliance.

8. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136 (See LAC 33:IX.4901) or, in the case of sludge use and disposal, approved under 40 CFR Part 136 (See LAC 33:IX.4901) unless otherwise specified in 40 CFR Part 503, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the state administrative authority.

9. Averaging of Measurements

Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the state administrative authority in the permit.

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10. Laboratory Accreditation

- a. LAC 33:IX Subpart 3, Chapters 45-59 provide requirements for an accreditation program specifically applicable to commercial laboratories, wherever located, that provide chemical analyses, analytical results, or other test data to the department, by contract or by agreement, and the data is:
- (1) Submitted on behalf of any facility, as defined in R.S.30:2004;
 - (2) Required as part of any permit application;
 - (3) Required by order of the department;
 - (4) Required to be included on any monitoring reports submitted to the department;
 - (5) Required to be submitted by contractor
 - (6) Otherwise required by department regulations.
- b. The department laboratory accreditation program is designed to ensure the accuracy, precision, and reliability of the data generated, as well as the use of department-approved methodologies in generation of that data. Laboratory data generated by commercial environmental laboratories that are not accredited under these regulations will not be accepted by the department. Retesting of analysis will be required by an accredited commercial laboratory.

Where retesting of effluent is not possible (i.e. data reported on DMRs for prior month's sampling), the data generated will be considered invalid and in violation of the LPDES permit.

- c. Regulations on the Environmental Laboratory Accreditation Program and a list of labs that have applied for accreditation are available on the department website located at:

<http://www.deq.state.la.us/laboratory/index.htm>.

Questions concerning the program may be directed to (225) 765-0582.

SECTION D. REPORTING REQUIREMENTS**1. Facility Changes**

The permittee shall give notice to the state administrative authority as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required **only** when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under LAC 33:IX.2703.A.1.
- c. For Municipal Permits. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to Section 301, or 306 of the CWA if it were directly discharging those pollutants; and any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit. In no case are any new connections, increased flows, or significant changes in influent quality permitted that will cause violation of the effluent limitations specified herein.

2. Anticipated Noncompliance

The permittee shall give advance notice to the state administrative authority of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. Transfers

This permit is not transferable to any person except after notice to the state administrative authority. The state administrative authority may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act or the Louisiana Environmental Quality Act. (See LAC 33:IX.2901; in some cases, modification or revocation and reissuance is mandatory.)

A permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued (under LAC 33:IX.2903, A.2.b), or a minor modification made (under LAC 33:IX.2905) to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act and the Louisiana Environmental Quality Act.

4. Monitoring Reports

Monitoring results shall be reported at the intervals and in the form specified in Part I or Part II of this permit.

The permittee shall submit properly completed Discharge Monitoring Reports (DMRs) on the form specified in the permit. Preprinted DMRs are provided to majors/92-500's and other designated facilities. Please contact the Permit Compliance Unit concerning preprints. Self-generated DMRs must be pre-approved by the Permit Compliance Unit prior to submittal. Self-generated DMRs are approved on an individual basis. Requests for approval of self-generated DMRs should be submitted to:

Supervisor, Permit Compliance Unit
Office of Environmental Compliance
Post Office Box 4312
Baton Rouge, LA 70821-4312

Copies of blank DMR templates, plus instructions for completing them, and EPA's LPDES Reporting Handbook are available at the department website located at:

<http://www.deq.louisiana.gov/portal/Default.aspx?tabid=2276>

5. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

6. Requirements for Notification

a. Emergency Notification

As required by LAC 33:I.3915, in the event of an unauthorized discharge that does cause an emergency condition, the discharger shall notify the hotline (DPS 24-hour Louisiana Emergency Hazardous Materials Hotline) by telephone at (225) 925-6595 (collect calls accepted 24 hours a day) immediately (a reasonable period of time after taking prompt measures to determine the nature, quantity, and potential off-site impact of a release, considering the exigency of the circumstances), but in no case later than one hour after learning of the discharge. (An emergency condition is any condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water, or air environment, or cause severe damage to property.) Notification required by this section will be made regardless of the amount of discharge. Prompt Notification Procedures are listed in Section D.6.c. of these standard conditions.

A written report shall be provided within seven calendar days after the notification. The report shall contain the information listed in Section D.6.d. of these standard conditions and any additional information in LAC 33:I.3925.B.

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b. Prompt Notification

As required by LAC 33:I.3917, in the event of an unauthorized discharge that exceeds a reportable quantity specified in LAC 33:I.Subchapter E, but does not cause an emergency condition, the discharger shall promptly notify the department within 24 hours after learning of the discharge. Notification should be made to the Office of Environmental Compliance, Surveillance Division Single Point of Contact (SPOC) in accordance with LAC 33:I.3923.

In accordance with LAC 33:I.3923, prompt notification shall be provided within a time frame not to exceed 24 hours and shall be given to the Office of Environmental Compliance, Surveillance Division Single Point of Contact (SPOC) as follows:

- (1) by the Online Incident Reporting screens found at <http://www3.deq.louisiana.gov/surveillance/irf/forms/>; or
- (2) by e-mail utilizing the Incident Report Form and instructions found at <http://www.deq.louisiana.gov/portal/Default.aspx?tabid=279>; or
- (3) by telephone at (225) 219-3640 during office hours, or (225) 342-1234 after hours and on weekends and holidays.

c. Content of Prompt Notifications. The following guidelines will be utilized as appropriate, based on the conditions and circumstances surrounding any unauthorized discharge, to provide relevant information regarding the nature of the discharge:

- (1) the name of the person making the notification and the telephone number where any return calls from response agencies can be placed;
- (2) the name and location of the facility or site where the unauthorized discharge is imminent or has occurred, using common landmarks. In the event of an incident involving transport, include the name and address of the transporter and generator;
- (3) the date and time the incident began and ended, or the estimated time of continuation if the discharge is continuing;
- (4) the extent of any injuries and identification of any known personnel hazards that response agencies may face;
- (5) the common or scientific chemical name, the U.S. Department of Transportation hazard classification, and the best estimate of amounts of any and all discharged pollutants;
- (6) a brief description of the incident sufficient to allow response agencies to formulate their level and extent of response activity.

d. Written Notification Procedures. Written reports for any unauthorized discharge that requires notification under Section D.6.a. or 6.b., or shall be submitted by the discharger to the Office of Environmental Compliance, Surveillance Division SPOC in accordance with LAC 33:IX.3925 within seven calendar days after the notification required by D.6.a. or 6.b., unless otherwise provided for in a valid permit or other department regulation. Written notification reports shall include, but not be limited to, the following information:

- (1) the name, address, telephone number, Agency Interest (AI) number (number assigned by the department) if applicable, and any other applicable identification numbers of the person, company, or other party who is filing the written report, and specific identification that the report is the written follow-up report required by this section;
- (2) the time and date of prompt notification, the state official contacted when reporting, the name of person making that notification, and identification of the site or facility, vessel, transport vehicle, or storage area from which the unauthorized discharge occurred;

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- (3) date(s), time(s), and duration of the unauthorized discharge and, if not corrected, the anticipated time it is expected to continue;
- (4) details of the circumstances (unauthorized discharge description and root cause) and events leading to any unauthorized discharge, including incidents of loss of sources of radiation, and if the release point is subject to a permit:
 - (a) the current permitted limit for the pollutant(s) released; and
 - (b) the permitted release point/outfall ID.
- (5) the common or scientific chemical name of each specific pollutant that was released as the result of an unauthorized discharge, including the CAS number and U.S. Department of Transportation hazard classification, and the best estimate of amounts of any and all released pollutants (total amount of each compound expressed in pounds, including calculations);
- (6) a statement of the actual or probable fate or disposition of the pollutant or source of radiation and what off-site impact resulted;
- (7) remedial actions taken, or to be taken, to stop unauthorized discharges or to recover pollutants or sources of radiation.
- (8) Written notification reports shall be submitted to the Office of Environmental Compliance, Surveillance Division SPOC by mail or fax. The transmittal envelope and report or fax cover page and report should be clearly marked **"UNAUTHORIZED DISCHARGE NOTIFICATION REPORT."**

Please see LAC 33:1.3925.B for additional written notification procedures.

- e. Twenty-four Hour Reporting. The permittee shall report any noncompliance which may endanger human health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and, steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The following shall be included as information which must be reported within 24 hours:
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit (see LAC 33:IX.2701.M.3.b.);
 - (2) Any upset which exceeds any effluent limitation in the permit;
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the state administrative authority in Part II of the permit to be reported within 24 hours (LAC 33:IX.2707.G.).
7. Other Noncompliance
The permittee shall report all instances of noncompliance not reported under Section D.4., 5., and 6., at the time monitoring reports are submitted. The reports shall contain the information listed in Section D.6.e.
8. Other Information
Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the state administrative authority, it shall promptly submit such facts or information.

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9. Discharges of Toxic Substances

In addition to the reporting requirements under Section D.1-8, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Office of Environmental Services, Water Permits Division as soon as they know or have reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant:
 - i. listed at LAC 33:IX.7107, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4 -dinitro-phenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with LAC 33:IX.2501.G.7; or
 - (4) The level established by the state administrative authority in accordance with LAC 33:IX.2707.F; or
 - ii. which exceeds the reportable quantity levels for pollutants at LAC 33:I. Subchapter E.
- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant:
 - i. listed at LAC 33:IX.7107, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 µg/L);
 - (2) One milligram per liter (1 mg/L) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with LAC 33:IX.2501.G.7; or
 - (4) The level established by the state administrative authority in accordance with LAC 33:IX.2707.F; or
 - ii. which exceeds the reportable quantity levels for pollutants at LAC 33:I. Subchapter E.

10. Signatory Requirements

All applications, reports, or information submitted to the state administrative authority shall be signed and certified.

- a. All permit applications shall be signed as follows:

- (1) For a corporation - by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or,
 - (b) The manager of one or more manufacturing, production, or operating facilities, provided: the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations and initiating and directing other comprehensive measures to ensure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and

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accurate information for permit application requirements; and the authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

NOTE: DEQ does not require specific assignments or delegations of authority to responsible corporate officers identified in Section D.10.a.(1)(a). The agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the state administrative authority to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate positions under Section D.10.a.(1)(b) rather than to specific individuals.

- (2) For a partnership or sole proprietorship - by a general partner or the proprietor, respectively; or
- (3) For a municipality, state, federal, or other public agency - by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes:
 - (a) The chief executive officer of the agency, or
 - (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
- b. All reports required by permits and other information requested by the state administrative authority shall be signed by a person described in Section D.10.a., or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described in Section D.10.a. of these standard conditions;
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company, (a duly authorized representative may thus be either a named individual or an individual occupying a named position; and,
 - (3) The written authorization is submitted to the state administrative authority.
- c. Changes to authorization. If an authorization under Section D.10.b. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Section D.10.b. must be submitted to the state administrative authority prior to or together with any reports, information, or applications to be signed by an authorized representative.
- d. Certification. Any person signing a document under Section D.10. a. or b. above, shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11. Availability of Reports

All recorded information (completed permit application forms, fact sheets, draft permits, or any public document) not classified as confidential information under R.S. 30:2030(A) and 30:2074(D) and designated as such in accordance with these regulations (LAC 33:IX.2323 and LAC 33:IX.6503) shall be made available to the public for inspection and copying during normal working hours in accordance with the Public Records Act, R.S. 44:1 et seq.

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Claims of confidentiality for the following will be denied:

- a. The name and address of any permit applicant or permittee;
- b. Permit applications, permits, and effluent data.
- c. Information required by LPDES application forms provided by the state administrative authority under LAC 33:IX.2501 may not be claimed confidential. This includes information submitted on the forms themselves and any attachments used to supply information required by the forms.

SECTION E. PENALTIES FOR VIOLATIONS OF PERMIT CONDITION

1. Criminal

a. Negligent Violations

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who negligently violates any provision of the LPDES, or any order issued by the secretary under the LPDES, or any permit condition or limitation implementing any such provision in a permit issued under the LPDES by the secretary, or any requirement imposed in a pretreatment program approved under the LPDES is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both. If a conviction of a person is for a violation committed after a first conviction of such person, he shall be subject to a fine of not more than \$50,000 per day of violation, or imprisonment of not more than two years, or both.

b. Knowing Violations

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who knowingly violates any provision of the LPDES, or any permit condition or limitation implementing any such provisions in a permit issued under the LPDES, or any requirement imposed in a pretreatment program approved under the LPDES is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person, he shall be subject to a fine of not more than \$100,000 per day of violation, or imprisonment of not more than six years, or both.

c. Knowing Endangerment

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who knowingly violates any provision of the LPDES, or any order issued by the secretary under the LPDES, or any permit condition or limitation implementing any of such provisions in a permit issued under the LPDES by the secretary, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000, or by imprisonment for not more than 15 years, or both. A person which is an organization shall, upon conviction of violating this Paragraph, be subject to a fine of not more than one million dollars. If a conviction of a person is for a violation committed after a first conviction of such person under this Paragraph, the maximum punishment shall be doubled with respect to both fine and imprisonment.

d. False Statements

The Louisiana Revised Statutes LA. R. S. 30:2076.2 provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the LPDES or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the LPDES, shall, upon conviction, be subject to a fine of not more than \$10,000, or imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this Subsection, he shall be subject to a fine of not more than \$20,000 per day of violation, or imprisonment of not more than 4 years, or both.

2. Civil Penalties

The Louisiana Revised Statutes LA. R. S. 30:2025 provides that any person found to be in violation of any requirement of this Subtitle may be liable for a civil penalty, to be assessed by the secretary, an assistant secretary, or the court, of not more than the cost to the state of any response action made necessary by such violation which is not voluntarily paid by the violator, and a penalty of not more than \$32,500 for each day of violation. However, when any such violation is done intentionally, willfully, or knowingly, or results in a discharge or disposal which causes irreparable or severe damage to the environment or if the substance discharged is one which endangers human life or health, such person may be liable for an additional penalty of not more than one million dollars.

(PLEASE NOTE: These penalties are listed in their entirety in Subtitle II of Title 30 of the Louisiana Revised Statutes.)

SECTION F. DEFINITIONS

All definitions contained in Section 502 of the Clean Water Act shall apply to this permit and are incorporated herein by reference. Additional definitions of words or phrases used in this permit are as follows:

1. Clean Water Act (CWA) means the Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or the Federal Water Pollution Control Act Amendments of 1972) Pub.L.92-500, as amended by Pub.L. 95-217, Pub.L. 95-576, Pub.L. 96-483 and Pub.L. 97-117, 33 U.S.C. 1251 et. seq.).
2. Accreditation means the formal recognition by the department of a laboratory's competence wherein specific tests or types of tests can be accurately and successfully performed in compliance with all minimum requirements set forth in the regulations regarding laboratory accreditation.
3. Administrator means the Administrator of the U.S. Environmental Protection Agency, or an authorized representative.
4. Applicable Standards and Limitations means all state, interstate and federal standards and limitations to which a discharge is subject under the Clean Water Act, including, effluent limitations, water quality standards of performance, toxic effluent standards or prohibitions, best management practices, and pretreatment standards under Sections 301, 302, 303, 304, 306, 307, 308 and 403.
5. Applicable water quality standards means all water quality standards to which a discharge is subject under the Clean Water Act.
6. Commercial Laboratory means any laboratory, wherever located, that performs analyses or tests for third parties for a fee or other compensation and provides chemical analyses, analytical results, or other test data to the department. The term commercial laboratory does not include laboratories accredited by the Louisiana Department of Health and Hospitals in accordance with R.S.49:1001 et seq.
7. Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day. Daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample.
8. Daily Maximum discharge limitation means the highest allowable "daily discharge".
9. Director means the U.S. Environmental Protection Agency Regional Administrator, or the state administrative authority, or an authorized representative.

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10. Domestic septage means either liquid or solid material removed from a septic tank, cesspool, portable toilet, Type III marine sanitation device, or similar treatment works that receives only domestic sewage. Domestic septage does not include liquid or solid material removed from a septic tank, cesspool, or similar treatment works that receives either commercial wastewater or industrial wastewater and does not include grease removed from grease trap at a restaurant.
11. Domestic sewage means waste and wastewater from humans, or household operations that is discharged to or otherwise enters a treatment works.
12. Environmental Protection Agency or (EPA) means the U.S. Environmental Protection Agency.
13. Grab sample means an individual sample collected over a period of time not exceeding 15 minutes, unless more time is needed to collect an adequate sample, and is representative of the discharge.
14. Industrial user means a nondomestic discharger, as identified in 40 CFR 403, introducing pollutants to a publicly owned treatment works.
15. LEQA means the Louisiana Environmental Quality Act.
16. Louisiana Pollutant Discharge Elimination System (LPDES) means those portions of the Louisiana Environmental Quality Act and the Louisiana Water Control Law and all regulations promulgated under their authority which are deemed equivalent to the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act in accordance with Section 402 of the Clean Water Act and all applicable federal regulations.
17. Monthly Average (also known as Daily Average), other than for fecal coliform bacteria, discharge limitations are calculated as the sum of all "daily discharge(s)" measured during a calendar month divided by the number of "daily discharge(s)" measured during that month. When the permit establishes monthly average concentration effluent limitations or conditions, and flow is measured as continuous record or with a totalizer, the monthly average concentration means the arithmetic average (weighted by flow) of all "daily discharge(s)" of concentration determined during the calendar month where C = daily discharge concentration, F = daily flow and n = number of daily samples; monthly average discharge =

$$\frac{C_1F_1 + C_2F_2 + \dots + C_nF_n}{F_1 + F_2 + \dots + F_n}$$

When the permit establishes monthly average concentration effluent limitations or conditions, and the flow is not measured as a continuous record, then the monthly average concentration means the arithmetic average of all "daily discharge(s)" of concentration determined during the calendar month.

The monthly average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar month.

18. National Pollutant Discharge Elimination System (NPDES) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the Clean Water Act.
19. Severe property damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

20. Sewage sludge means a solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge includes, but is not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment processes; portable toilet pumpings, type III marine sanitation device pumpings (33 CFR part 159); and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screenings generated during preliminary treatment of domestic sewage in a treatment works.
21. Treatment works means any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage and industrial wastes of a liquid nature to implement Section 201 of the Clean Water Act, or necessary to recycle or reuse water at the most economical cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and their appurtenances, extension, improvement, remodeling, additions, and alterations thereof. (See Part 212 of the Clean Water Act)
22. For fecal coliform bacteria, a sample consists of one effluent grab portion collected during a 24-hour period at peak loads.
23. The term MGD shall mean million gallons per day.
24. The term mg/L shall mean milligrams per liter or parts per million (ppm).
25. The term µg/L shall mean micrograms per liter or parts per billion (ppb).
26. The term ng/L shall mean nanograms per liter or parts per trillion (ppt).
27. Weekly average, (also known as 7-day average), other than for fecal coliform bacteria, is the highest allowable arithmetic mean of the daily discharges over a calendar week, calculated as the sum of all "daily discharge(s)" measured during a calendar week divided by the number of "daily discharge(s)" measured during that week. When the permit establishes weekly average concentration effluent limitations or conditions, and flow is measured as continuous record or with a totalizer, the weekly average concentration means the arithmetic average (weighted by flow) of all "daily discharge(s)" of concentration determined during the calendar week where C = daily discharge concentration, F = daily flow and n = number of daily samples; weekly average discharge =

$$\frac{C_1F_1 + C_2F_2 + \dots + C_nF_n}{F_1 + F_2 + \dots + F_n}$$

When the permit establishes weekly average concentration effluent limitations or conditions, and the flow is not measured as a continuous record, then the weekly average concentration means the arithmetic average of all "daily discharge(s)" of concentration determined during the calendar week.

The weekly average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

28. Sanitary Wastewater Term(s):

- a. 3-hour composite sample consists of three effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) over the 3-hour period and composited according to flow, or a sample continuously collected in proportion to flow over the 3-hour period.
- b. 6-hour composite sample consists of six effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) over the 6-hour period and composited according to flow, or a sample continuously collected in proportion to flow over the 6-hour period.

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- c. 12-hour composite sample consists of 12 effluent portions collected no closer together than one hour over the 12-hour period and composited according to flow, or a sample continuously collected in proportion to flow over the 12-hour period. The daily sampling intervals shall include the highest flow periods.
- d. 24-hour composite sample consists of a minimum of 12 effluent portions collected at equal time intervals over the 24-hour period and combined proportional to flow or a sample continuously collected in proportion to flow over the 24-hour period.

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